

**BEFORE**  
**THE CENTRAL ELECTRICITY REGULATORY COMMISSION, NEW**  
**DELHI**

**PETITION NO. \_\_\_\_\_ OF 2024**

**IN THE MATTER OF**

Application under Section-14, 15, 79(1)(e) of the Electricity Act, 2003 read with Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 with respect to Grant of Transmission License to Pune - III Transmission Limited

**AND IN THE MATTER OF**

Pune - III Transmission Limited

....Petitioner

Versus

Central Transmission Utility of India Limited and Ors.

....Respondents



## INDEX

| SN. | Particulars                                                                                                                  | Page No |
|-----|------------------------------------------------------------------------------------------------------------------------------|---------|
| 1.  | Memo of Parties                                                                                                              | 1-2     |
| 2.  | Affidavit on Behalf of the Petitioner                                                                                        | 3-4     |
| 3.  | Petition / Application under Section 14, 15, 79 (1) (e) of the Electricity Act, 2003 for Grant of Transmission License       | 5-26    |
| 4.  | <b><u>Annexure A1</u></b><br>Copy of Government of India, Ministry of Power notification dated 29.08.2023                    | 27-80   |
| 5.  | <b><u>Annexure A2</u></b><br>Copy of the Certificate of Registration dated 16.01.2024 of the Petitioner Company              | 81      |
| 6.  | <b><u>Annexure A3</u></b><br>Memorandum and Articles of Association dated 11.01.2024 of the Petitioner Company               | 82-138  |
| 7.  | <b><u>Annexure A4</u></b><br>Copy of the Global Invitation for Qualification dated 19.10.2023 as published in the newspapers | 139-149 |
| 8.  | <b><u>Annexure A5</u></b><br>Copy of the Certificate dated 17.10.2024 issued by Bid Evaluation Committee                     | 150     |
| 9.  | <b><u>Annexure A6</u></b>                                                                                                    | 151-154 |



| SN. | Particulars                                                                                                          | Page No |
|-----|----------------------------------------------------------------------------------------------------------------------|---------|
|     | Copy of the Letter of Intent (LoI) dated 21.10.2024, along with the details of Annual Transmission Charges           |         |
| 10. | <b><u>Annexure A7</u></b><br>Copy of the CPG dated 16.11.2024                                                        | 155-160 |
| 11. | <b><u>Annexure A8</u></b><br>Copy of the Share Purchase Agreement dated 19.11.2024                                   | 161-179 |
| 12. | <b><u>Annexure A9</u></b><br>Copy of Transmission Service Agreement (TSA) dated 19.11.2024                           | 180-318 |
| 13. | <b><u>Annexure A10</u></b><br>Copy of duly filled Form-I                                                             | 319-321 |
| 14. | <b><u>Annexure A11</u></b><br>Copy of Resolution Passed by the Board of Directors of Pune - III Transmission Limited | 322     |

*Pashant Hemra*  
Petitioner

Place: Ahmedabad

Date: 21.11.2024



**BEFORE**  
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and Conditions for Grant of Transmission License and other related  
matters) Regulations, 2024 with respect to Grant of Transmission License  
to Pune - III Transmission Limited

**AND IN THE MATTER OF**

Pune - III Transmission Limited

.... Petitioner

Versus

Central Transmission Utility of India Limited and Ors.

.... Respondents

**MEMO OF PARTIES**

Pune - III Transmission Limited

Having its registered office at;





C-105, Anand Niketan,  
New Delhi 110021

....Petitioner

Versus

1. Central Transmission Utility of India Limited

Saudamini, Plot No.2, Sector-29,  
Gurgaon-122 001

2. PFC Consulting Limited

Urjanidhi, 1, Barakhamba Lane, Connaught Place,  
New Delhi, DELHI -110001

.....Respondents



Petitioner

**Place: Ahmedabad**

**Date: 22.11.2024**

S. No....8830...../2024 3  
~v~  
**VIJAY C. SHAH**  
NOTARY  
GOVT. OF INDIA

19 NOV 2024

**BEFORE**

**THE CENTRAL ELECTRICITY REGULATORY COMMISSION,**

**NEW DELHI**

**PETITION NO. \_\_\_\_\_ OF 2024**

**IN THE MATTER OF**

Application under Section-14, 15, 79(1)(e) of the Electricity Act, 2003  
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**AND IN THE MATTER OF**

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....Petitioner

Versus

Central Transmission Utility of India Limited & Ors

....Respondents

**AFFIDAVIT**

I, **Prashant Kumar**, son of Sh. Jagdish Prasad aged about 47 years, R/o B-101, Sanskar Apartments, Satellite, Ahmedabad do hereby solemnly affirm and state on oath as under:





1. That I am the Authorised Representative, of the Petitioner, Pune - III Transmission Limited, and I am fully conversant with the facts and circumstances of the case and I have been duly authorized and am, therefore, competent to affirm this affidavit.
2. That I have read the accompanying submissions being submitted on behalf of Pune - III Transmission Limited and have understood the contents thereof and that the contents therein are true and correct to the best of my knowledge and belief.

*Prashant Kumar*  
**DEPONENT**

### VERIFICATION

I, **Prashant Kumar**, the above named deponent do hereby verify that the contents of this affidavit are true and correct to the best of my knowledge and belief, no part of it is false and nothing material has been concealed therefrom.

Verified by me on this <sup>22<sup>nd</sup></sup> November, 2024 at Ahmedabad.

*Prashant Kumar*  
**DEPONENT**

SOLEMNLY AFFIRMED  
 BEFORE ME

*22*  
**VIJAY C. SHAH**  
 NOTARY  
 GOVT. OF INDIA

19 NOV 2024



**BEFORE**  
**THE CENTRAL ELECTRICITY REGULATORY COMMISSION,**  
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**AND IN THE MATTER OF**

Pune - III Transmission Limited

.... Petitioner

Versus

Central Transmission Utility of India Limited & Ors

.... Respondents

**PETITION / APPLICATION UNDER SECTION 14, 15, 79 (1) (e)**  
**OF THE ELECTRICITY ACT, 2003 FOR GRANT OF**  
**TRANSMISSION LICENSE**



**MOST RESPECTFULLY SHOWETH:**

1. It is most respectfully submitted that Pune - III Transmission Limited (herein after referred to as “Petitioner”) is filing the present Application under Section-14 of the Electricity Act, 2003 read with Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 (hereinafter referred to as “Transmission *Licence Regulations*”) for grant of Transmission Licence to establish transmission project for **“Transmission System for evacuation of power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part D ”** on build, own, operate and transfer basis (hereinafter referred to as “*the project*”) consisting of following elements:

|    | <b>Name of the Transmission Element</b>                                                                                                                                                         | <b>Scheduled COD in months from Effective Date</b> |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 1. | Establishment of 2x1500 MVA, 765/400 kV & 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor                                       | 24 months<br>(19.11.2026)                          |
| 2. | <ul style="list-style-type: none"> <li>Boisar-II – Pune-III 765 kV D/c line</li> <li>2 Nos. of 765 kV line bays at Boisar-II for termination of Boisar-II – Pune-III 765 kV D/C line</li> </ul> |                                                    |
| 3. | 330 MVAR switchable line reactors at Pune-III end of Boisar-II – Pune-III 765 kV D/c line (with NGR bypass arrangement)                                                                         |                                                    |
| 4. | LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III                                                                                                                                 |                                                    |



|     | Name of the Transmission Element                                                                                                                          | Scheduled COD in months from Effective Date |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 5.  | 330 MVAR switchable line reactors at Pune-III end of Narendra (New) – Pune-III(GIS) 765 kV D/c line (with NGR bypass arrangement)                         |                                             |
| 6.  | LILO of Hinjewadi- Koyna 400 kV S/c line at Pune-III (GIS) S/s                                                                                            |                                             |
| 7.. | 80 MVAR, 420 kV switchable Line Reactor at Pune-III (GIS) end of Pune-III (GIS) – Koyna 400 kV line formed after above LILO (with NGR bypass arrangement) |                                             |

Note:

- i. Bay(s) required for completion of diameter (GIS) in one-and-half breaker scheme, shall also be executed by TSP.
- ii. Logic for inter-tripping scheme for tripping of the 330 MVAR switchable line reactor along with main line breaker at Pune (GIS) end of Pune (GIS) – Narendra (New) 765 kV D/c line shall be implemented by the owner of the line after LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III.
- iii. MSETCL shall implement the following 220 kV lines along with 5 Nos. 220 kV GIS bays at Pune-III (GIS) S/s in matching time-frame of Pune-III S/s:
  - a. LILO of both circuits of jejuri-Phursungi 2220 kV D/c line at Pune-III S/s with HTLS conductor (twin zebra equivalent) along with reconductoring of balance line section viz. LILO point to phursungi and LILO points to jejuri with HTLS conductor (twin zebra equivalent)
  - b. Nanded City- Pune PG III 220 kV S/c line with HTLS conductor (twin zebra equivalent)





- iv. *TSP of Boisar-II S/s shall provide space for work envisaged at SI. No.4.*
- v. *The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.*

2. It is most respectfully submitted that Ministry of Power, Government of India, vide Gazette Notification dated 29.08.2023 has notified PFC Consulting Limited (PFCCL) to be the Bid Process Coordinator (Hereinafter referred as “BPC”) for the purpose of selection of Bidder as Transmission Service Provider (Hereinafter referred as “TSP”) to establish Transmission System for **“Transmission System for evacuation of power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part D ”** through tariff based competitive bidding process.

A copy of the Government of India, Ministry of Power’s Gazette Notification is enclosed herewith and marked as **ANNEXURE A1**.

3. Further a Company under the Companies Act 2013 by the name “Pune - III Transmission Limited” having its registered office at C-105, Anand Niketan, New Delhi - 110021 has been incorporated on 16.01.2024 by PFC CONSULTING LIMITED (Bid Process Coordinator) as its 100% wholly owned subsidiary to initiate the activities for execution of the



Project and subsequently to act as Transmission Service Provider after being acquired by the successful bidder selected through Tariff Based Competitive Bidding process. A copy of the Certificate of Registration of the Petitioner Company is enclosed herewith and marked as **ANNEXURE A2** and a copy of the Memorandum of Association and Articles of Association of the Petitioner Company is enclosed herewith and marked as **ANNEXURE A3**.

4. It is further submitted that BPC had initiated the selection of successful bidder to acquire the TSP in accordance with the "*Tariff Based Competitive Bidding Guidelines for Transmission Service*" and "*Guidelines for Encouraging Competition in Development of Transmission Projects*" issued by Government of India, Ministry of Power under Section-63 of the Electricity Act, 2003. Copy of the Global Invitation for Qualification as published in the newspapers is enclosed herewith and marked as **ANNEXURE A4**.
5. It is most respectfully submitted that pursuant to the process of competitive bidding conducted by the BPC, M/s. Adani Energy Solutions Limited has been declared as the successful bidder. Copy of the Certificate by Bid Evaluation Committee is enclosed herewith and marked as **ANNEXURE A5**.





6. Further, on 21<sup>st</sup> October, 2024 the BPC issued a Letter of Intent (hereinafter referred to as “**LoI**”) to M/s Adani Energy Solutions Limited. A copy of the Letter of Intent (LoI) along with the details of Annual Transmission Charges is enclosed herewith and marked as **ANNEXURE A6**.
7. It is humbly submitted that as per the Clause 2.15.4 of Request for Proposal (RFP), the TSP/Petitioner is required to apply for Grant of Transmission Licence within 5 working days from the date of acquisition of SPV.
8. It is humbly submitted that in accordance with the LoI, Adani Energy Solutions Limited on 16.11.2024 has furnished the Contract Performance Guarantees (CPG) for an aggregate value of **Rs. 70,00,00,000.00/- (Rupees Seventy Crore Only)** in favour of Central Transmission Utility of India Limited. Copy of the CPG dated 16.11.2024 is enclosed herewith and marked as **ANNEXURE A7**.
9. M/s Adani Energy Solutions Limited has acquired Pune - III Transmission Limited on 19.11.2024 after execution of the Share Purchase Agreement and completing all procedural requirements as specified in the bid documents. A copy of the Share Purchase Agreement is enclosed herewith and marked as **ANNEXURE A8**.



10. Further the Transmission Service Agreement (TSA) dated 19.11.2024 entered between the Central Transmission Utility of India Limited (Nodal Agency) and “Pune - III Transmission Limited” is enclosed herewith and marked as *ANNEXURE A9*.
11. It is humbly submitted that Section-14 of the Electricity Act, 2003 provides that the Appropriate Commission may, on an application made under Section-15 of the Electricity Act, 2003, grant Licence to any person to transmit electricity as a transmission licensee in any area as may be specified in the Licence. The word ‘person’ has been defined in Section 2(49) of the Act to include any company or body corporate or association or body of individuals, whether incorporated or not, or artificial juridical person. Therefore, the Petitioner in accordance with the TSA and under Section 14 of the Electricity Act, 2003 is filing the present Petition/Application inter-alia seeking grant of Transmission Licence for the Project explained above.
12. Further, it is most respectfully submitted that Section 15(1) of the Act provides that every application under Section 14 shall be made in such manner and in such form as may be specified by the Appropriate



Commission and shall be accompanied with such fees as may be prescribed. Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2024 and as per Regulation-4 of the aforementioned Regulations, a person selected through the process under the guidelines for competitive bidding is eligible for grant of licence for which the Petitioner is constrained to approach this Commission.

13. That the Petitioner, Pune - III Transmission Limited, incorporated under the Companies Act, 2013 is a 100% wholly owned subsidiary of Adani Energy Solutions Limited who has been selected on the basis of the Tariff Based Competitive Bidding as per the Tariff Based Bidding Guidelines for Transmission Service issued by the Government of India, Ministry of Power and thus eligible for issuance of transmission licence.
14. It is submitted that the grant of transmission license is a condition of Transmission Service Agreement and is also a requirement in law without which the Petitioner cannot proceed with the establishment of the Transmission System.
15. The Hon'ble Commission in its CERC (Procedure, Terms & Conditions for grant of Transmission Licence and other related matters) Regulations, 2024 had prescribed the form of Application and also the amount of fee



for making an Application for a Transmission Licence and the Petitioner is submitting herewith the Application in such prescribed format along with the fees as per Regulation 5(1) of the said Regulation. Copy of duly filled Form-I along with the Resolution passed by the Board of Directors of Pune - III Transmission Limited is enclosed herewith and marked as ***ANNEXURE A11***.

16. It is most respectfully submitted that the copy of the Application for grant of Transmission Licence is being forwarded to each of the Respondents as per Regulation 5(3) of CERC (Procedure, Terms and Conditions of Transmission Licence and other related matters) Regulations, 2024.
17. It is further submitted that the Petitioner is submitting/furnishing a copy of the instant Application to Central Transmission Utility, as required under Section 15 (3) of the Act and Regulation 5(3) of CERC (Procedure, Terms and Conditions of Transmission Licence and other related matters) Regulations, 2024 for the recommendation, if any, in accordance with Section 15 (4) of the Act simultaneously along with submission of this petition to Hon'ble Commission.
18. The Petitioner has posted the Application for grant of Transmission Licence on its website [www.adanienergysolutions.com](http://www.adanienergysolutions.com) as per Regulation



5(4) of CERC (Procedure, Terms and Conditions of Transmission Licence and other related matters) Regulations, 2024 so as to facilitate the access to the Application by any person through internet. The petitioner shall publish a notice of its application in Form-II prescribed under Regulation 5(5) of CERC (Procedure, Terms and Conditions of Transmission Licence and other related matters) Regulations, 2024 for inviting comments from general public. This notice shall also be uploaded on website of petitioner.

19. Keeping in view the above, the Petitioner fulfils the eligibility criteria for grant of transmission licence as stipulated in Central Electricity Regulatory Commission (Procedure, Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2024 and therefore the Hon'ble Commission may grant the prayer as prayed for.
20. It is submitted that as per Request for Proposal ('RFP') under the bidding process the definition of "RFP Project Documents" shall mean the Transmission Service Agreement and the Share Purchase Agreement ('SPA'). It is submitted that the TSA has been executed between the Transmission Service Provider ('TSP') and Central Transmission Utility of India Limited (CTUIL) which is part of RFP Project Documents. The terms of the said TSA are binding on the parties to the said agreement. It



is submitted that claims, if any, made by the applicant shall be in accordance with the provisions of the RFP project documents.

21. It is most respectfully submitted that the above right is without any prejudice to the rights of the Applicant/Transmission license as provided for in the Electricity Act, TSA including the laws governing the TSA and Regulations etc.
22. It is humbly submitted that the bidding process was governed by the Tariff Based Competitive Bidding Guidelines for the Transmission Services and Standard Bidding Documents issued by the Ministry of Power. The tariff quoted inter alia takes into consideration the rights and obligations of the developer including the provisions available to claim time and cost variations as allowed in the TSA.
23. The terms of the TSA are binding on the parties (TSP & CTUIL) to the said agreement and any claim for escalation of transmission charges or for extension of time in pursuance of such competitive bidding process need to be dealt with in accordance with the terms contained in the bidding documents including the TSA. Post selection of the successful bidder and the decision to award the project, there cannot be a review of the bidding terms including in regard to the scope of the implications of the clauses such as force majeure, change in law etc. stipulated in the TSA. Further there are provisions in law such as Section 56 of the Indian Contract Act,



1872, which deals with the frustration of contract, impossibility of Performance etc. giving statutory remedies to the contracting parties. The Hon'ble Commission and other judicial forums have provided reliefs in the past in various cases as per the terms of the contract or as per the provisions of law where events occurrence during implementation are not attributable to the developers. Also, in terms of Section 28 of the Indian Contract Act, 1872, no restraint in taking legal proceedings in future can be validly placed.

24. It is further stated that in terms of the TSA the Applicant would implement the project as per the provisions of the Article 16.4 of the Transmission Service Agreement ('TSA'), which reads as under: -

*"16.4 Parties to Perform Obligations:*

*Notwithstanding the existence of any Dispute and difference referred to Commission as provided in Article 16.3 and save as the Commission may otherwise direct by a final or interim order, the Parties hereto shall continue to perform their respective obligations/ roles (which are not in dispute) under this Agreement"*

25. It is submitted that in facts and circumstances mentioned hereinabove, it is humbly submitted that claims, if any, made by the Applicant shall be in accordance with the provisions of the RFP projects Documents.





26. With reference to ensure the compliance of the requirements stipulated in Article 5.1.1 and Article 5.4 of the TSA, the Petitioner is making the following submission in the subsequent paragraphs.
27. That according to the terms of the TSA, there are three external agencies viz. CEA, CTU and Independent Engineer, which monitor the quality of the construction of the Transmission Project being constructed by the Applicant. Further, the Applicant under the TSA is entrusted with the obligation of providing progress report on a monthly basis, a progress report to the Nodal Agency and Central Electricity Authority ("CEA"), with regard to the project and its execution, to enable them to monitor and co-ordinate the development of the Project. Further, it is most respectfully submitted that in terms of the TSA the Nodal Agency shall appoint Independent Engineer for the purpose of inspecting the progress of the Project. In addition, the CEA may carry out random inspections during the Project execution, as and when deemed necessary by it. The relevant provisions of the TSA are extracted as below:

***“Clause 4.1 (g) – TSP’s obligation in development of the Project:***

*Subject to the terms and conditions of this Agreement, the TSP at its own cost and expenses shall observe, comply with, perform, undertake and be responsible:*

*(g) To provide the Nodal Agency and CEA, on a monthly basis, progress reports with regards to the Project and its execution (in*



*accordance with prescribed Form) to enable the CEA to monitor and co-ordinate the development of the Project matching with the Interconnection Facilities."*

***"Clause 5.5 – Progress Monitoring & Quality Assurance:***

*5.5.1 The Project Execution Plan submitted by the TSP in accordance with Article 3.1.3.c) shall comprise of detailed schedule of all the equipments/items/materials required for the Project, right from procurement of raw material till the dispatch from works and receipt at the site. Further, it should also include various stages of the construction schedule up to the commissioning of the Project.*

*5.5.2 Nodal Agency, CEA & Independent Engineer shall have access at all reasonable times to the Site and to the Manufacturer's works and to all such places where the Project is being executed.*

*5.5.3 Independent Engineer shall ensure conformity of the conductor specifications with the functional specifications specified in RFP.*

*5.5.4 The Independent Engineer shall monitor the following during construction of the Project:*

- a) Quality of equipments, material, foundation, structures and workmanship etc. as laid down in Article 5.4 and 6.1.4 of the TSA. Specifically, quality of Sub-station equipments, transmission line material and workmanship etc. would be checked in accordance with the Article 5.4.*
- b) Progress in the activities specified in Condition Subsequent*
- c) Verification of readiness of the elements including the statutory clearances & completion of civil works, fixing of all components and finalisation of punch points (if any) prior to charging of the elements*



*d) Progress of construction of substation and Transmission Lines*

*5.5.5 The progress shall be reviewed by the Independent Engineer against the Project Execution Plan. The Independent Engineer shall prepare its report on monthly basis and submit the same to Nodal Agency highlighting the progress achieved till the end of respective month vis-A-vis milestone activities, areas of concern, if any, which may result in delay in the timely completion of the Project. Based on the progress, Nodal Agency and/ or CEA shall issue written instructions to the TSP to take corrective measures, as may be prudent for the timely completion of the Project. In case of any deficiency, the Nodal Agency would be at liberty to take action in accordance with the procedure of this Agreement.*

*5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee."*

***"Clause 5.8 - Remedial Measures:***

*The TSP shall take all necessary actions for remedying the shortfall in achievement of timely progress in execution of the Project, if any, as intimated by the Independent Engineer and/ or CEA and/ or the Nodal Agency. However, such intimation by the Independent Engineer and/ or CEA and/ or the Nodal Agency and the subsequent effect of such remedial measures carried out by the TSP shall not relieve the TSP of its obligations in the Agreement. Independent Engineer and/ or CEA*



*and/ or the Nodal Agency may carry out random inspections during the Project execution, as and when deemed necessary by it. If the shortfalls as intimated to the TSP are not remedied to the satisfaction of the CEA and/ or the Nodal Agency, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement."*

28. That the TSA further provides that the TSP i.e. the Applicant must ensure that the design and construction of the project is in accordance with Indian Standards and Codes issued by the Bureau of Indian Standards and in case they are not applicable, other equivalent internationally recognized Standards and Codes shall be followed. Further, in terms of the TSA the Applicant is also responsible for constructing and commissioning the Project in accordance with the norms prescribed in various Regulations issued by the CEA, Prudent Utility Practices and other applicable Laws.

The relevant provisions of the TSA are extracted as below:

***"Clause 5.1.1 of the TSA -TSP's Construction Responsibilities***

*The TSP, at its own cost and expense, shall be responsible for designing, constructing, erecting, testing and commissioning each Element of the Project by the Scheduled COD in accordance with the Regulations and other applicable Laws specified in Article 4.1 of this Agreement."*



***“Clause 5.4 of the TSA - Quality of Workmanship:***

*The TSP shall ensure that the Project is designed, built and completed in a good workmanship using sound engineering and construction practices, and using only materials and equipment that are new and manufactured as per the MQP and following approved FQP for erection, testing & commissioning and complying with Indian /International Standards such that, the useful life of the Project will be at least thirty five (35) years from the COD of the Project.*

*The TSP shall ensure that all major substation equipment / component (e.9. transformers, reactors, Circuit Breakers, Instrument Transformers (IT), Surge Arresters (SA), Protection relays, clamps & connectors etc.), equipment in terminal stations of HVDC installations including Thyristor/ IGBT valves, Converter Transformers, smoothing reactors, Transformer bushings and wall bushings, GIS bus ducts, towers and gantry structures and transmission towers or poles and line materials (conductors, earth wire, OPGW, insulator, accessories for conductors, OPGW & earth wires, hardware fittings for insulators, aviation lights etc), facilities and system shall be designed, constructed and tested (Type test, Routine tests, Factory Acceptance Test (FAT)) in accordance with relevant CEA Regulations and Indian Standards. In case Indian Standards for any particular equipment/ system/ process is*



*not available, IEC/ IEEE or equivalent International Standards and Codes shall be followed.”*

29. It is most respectfully submitted that in terms of the above quoted provisions of the TSA there are sufficient checks and balances, and the quality control mechanism is already available whereby, CEA, Nodal Agency and Independent Engineer will monitor the overall quality of construction of the Project by the Applicant to ensure that the Applicant is complying with Article 5.1.1 and 5.4 of the TSA.
30. In addition to the above the Applicant would also like to refer to the provisions of the RFP Document, which are stated as below:

*“2.5.7.2 In their own interest, the Bidders are requested to familiarize themselves with all relevant laws of India, including without limitation, the Electricity Act 2003, the Income Tax Act 1961, the Companies Act, 1956 / Companies Act, 2013 (as the case may be), Environment Protection Act 1986 and Forest (Conservation) Act, 1980, the Customs Act, the Foreign Exchange Management Act, Land Acquisition Act, 1894, the Indian Telegraph Act 1885, Labour & Employment Laws of India, [Insurance Act] the regulations/standards framed by the Commissions and CEA, all other related acts, laws, rules and regulations prevalent in India, as amended from time to time.*

*In addition to the above, the Bidders are required to familiarize themselves with all relevant technical codes and standards, including but not limited to the Grid Code / State Grid Code, Central Electricity*





*Authority (Installation and Operations of Meters) Regulations, 2006, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007, Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium - Term Open Access in Inter-State Transmission and related matters) Regulations, 2009, Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010, Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020, Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and other relevant Rules/ Regulations/ Guidelines issued by the Central Government, the CERC and the CEA and amendments thereof.*

*The BPC shall not entertain any request for clarifications from the Bidders regarding the above laws / acts / rules / regulations / standards. Non-awareness of the same shall not be a reason for the Bidder to request for extension in Bid Deadline. The Bidders undertake and agree that, before submission of their Bid, all such factors as generally brought out above, have been fully investigated and considered while submitting their Bids."*

31. It is further submitted that the Applicant being an experienced entity will ensure that the project is constructed by following the required quality standard and prudent utility practices by putting in place the following: -





- i. At the procurement stage, the Qualification Requirement for shortlisting's of a supplier/contractor is done on the basis of the technical specifications as mentioned on the TSA. The purchase Order/contract mentions the technical standards and the testing requirements. Material dispatch is allowed after the conformance report is validated.
  - ii. For tower material, a Manufacturing Quality Plan (MQP) in line with the applicable technical standards and the one followed by CTU is followed.
  - iii. For ensuring construction quality, a Field Quality Plan (in line with the standards mentioned in TSA and that followed by CTU) is specified to the contractors in advance. The conformance report to the said document is also maintained at site.
  - iv. The construction and material supply quality are also validated with respect to the TSA by the Lenders Independent Engineer during its quarterly construction review.
32. That the above statement is without any prejudice to the rights of the Applicant/Transmission License as provided in the Electricity Act, TSA and the Laws.
33. The Petitioner shall also comply with all the other requirements as provided in the Transmission License Regulations including publication



of notices in newspapers, service on the beneficiaries of the Petitioner's Transmission System. The Petitioner shall place the compliance report on record before the Hon'ble Commission.

#### 34. PRAYER

The Petitioner hereby humbly prays the Hon'ble Commission to:

- a) Issue / Grant the Transmission License to the Applicant /Petitioner, Pune - III Transmission Limited for establishing, operating and maintaining the Inter-state Transmission System as provided for in the Transmission Service Agreement;
- b) Allow the “*Transmission System for evacuation of power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part D*” to be part of PoC Pool as per CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and any other amendments thereon issued from time to time by Hon’ble Commission.
- c) Condone any inadvertent errors omissions/ errors / shortcomings and permit the Petitioner to add/change/modify/alter these filings and make further submissions as may be required at a future date.



- d) Pass any such other order / orders, as may be deemed fit and proper  
in the facts and circumstances of the case.



Petitioner

**Place: Ahmedabad**

**Date: 22.11.2024**

## Annexure A1

रजिस्ट्री सं. बी.एल.- 33004/99

REGD. No. D. L.-33004/99

  
**भारत का राजपत्र**  
**The Gazette of India**

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EXTRAORDINARY

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विद्युत मंत्रालय

अधिसूचना

नई दिल्ली, 29 अगस्त, 2023

**का.आ. 3894(अ).**—केन्द्र सरकार, विद्युत अधिनियम, 2003 (2003 की संख्या 36) की धारा 63 के अंतर्गत परिचालित दिशा-निर्देशों के पैरा 3 के उप-पैरा 3.2 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, पारेषण संबंधी राष्ट्रीय समिति की 14वीं बैठक की सिफारिशों पर, पारेषण स्कीमों के लिए पारेषण स्कीमों के नाम के निमित्त दर्शाए अनुसार, निम्नलिखित बोली-प्रक्रिया समन्वयकों (बीपीसी) की नियुक्ति करती है:

| क्र.सं. | पारेषण स्कीम का नाम एवं कार्यक्षेत्र                                                                                                                                                                                                                                                      | बोली प्रक्रिया समन्वयक                                                                          |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| 1.      | चरण IV (7 गीगावॉट) के अंतर्गत गुजरात के खावड़ा क्षेत्र में संभावित नवीकरणीय ऊर्जा क्षेत्र से विद्युत की निकासी के लिए पारेषण प्रणाली: भाग ए<br>संभावित कार्यान्वयन की समय-सीमा: एसपीवी अंतरण से 24 महीने और खावड़ा चरण-IV (7 गीगावॉट) के भाग बी, सी एवं डी के साथ मिलान<br>कार्य क्षेत्र: | आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड                                                     |
| क्र.सं. | पारेषण स्कीम का कार्य क्षेत्र                                                                                                                                                                                                                                                             | क्षमता/मार्ग की लंबाई                                                                           |
| 1.      | 765 केवी बस सेक्शनलाइज़र और 1x330 एमवीएआर, बस सेक्शन-II में 765 केवी बस रिएक्टरों सहित केपीएस3 (जीआईएस) में 765 केवी बस सेक्शन- II का निर्माण 3x1500 एमवीए, बस सेक्शन-II में                                                                                                              | केपीएस3 765 केवी बस सेक्शनलाइज़र में बस सेक्शन- II - 1 सेट<br>1500 एमवीए, 765/400 केवी आईसीटी-3 |



|    |                                                                                                                                                                                    |                                                                                                                                                                                                                                         |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 765/400 केवी आईसीटी दोनों के साथ बस खंड-II का निर्माण 765 केवी और 400 केवी स्तर पर किया जाएगा                                                                                      | 330 एमवीएआर, 765 केवी बस रिएक्टर-1<br>765 केवी रिएक्टर वे-1<br>765 केवी आईसीटी वे-3                                                                                                                                                     |
| 2. | आरई अंतरसंपर्क के लिए 400 केवी बस सेक्शनलाइजर एवं 1x125 एमवीएआर बस सेक्शन-II तीन 400 केवी वे तथा 420 केवी बस रिएक्टरों सहित केपीएस 3 (जीआईएस) में 400 केवी बस सेक्शन-II का निर्माण | केपीएस3 में बस सेक्शन-II 400 केवी बस सेक्शनलाइजर-1 सेट<br>125 एमवीएआर, 420 केवी बस रिएक्टर-1<br>400 केवी रिएक्टर वे-1<br>400 केवी आईसीटी वे-3 (उपरोक्त क्र.सं. 1 पर आईसीटी के लिए)<br>400 केवी लाइन वे-3 संख्या (आरई अंतरसंपर्क के लिए) |
| 3. | केपीएस3 (जीआईएस) - लाकाडिया (एआईएस) 765 केवी डी/सी लाइन                                                                                                                            | मार्ग की लम्बाई:185 कि.मी.                                                                                                                                                                                                              |
| 4. | केपीएस3 (जीआईएस)-लकाडिया (एआईएस) 765 केवी डी/सी लाइन के लिए केपीएस3 (जीआईएस) और लकाडिया (एआईएस) प्रत्येक में दो 765 केवी लाइन वे                                                   | <ul style="list-style-type: none"> <li>765 केवी लाइन वे (जीआईएस)-2 (केपीएस3 छोर बस सेक्शन-II में)</li> <li>765 केवी लाइन वे (एआईएस)-2 (लकाडिया छोर पर)</li> </ul>                                                                       |
| 5. | 1x125 एमवीएआर एमएससी के साथ ±300 एमवीएआर स्टैटकॉम, केपीएस3 400 केवी बस सेक्शन-II में 2x125 एमवीएआर एमएसआर                                                                          | <ul style="list-style-type: none"> <li>± 300 एमवीएआर स्टैटकॉम (1x125 एमवीएआर एमएससी, 2x125 एमवीएआर एमएसआर के साथ)</li> <li>400 केवी वे-1</li> </ul>                                                                                     |
| 6. | केपीएस 1 (जीआईएस) - भुज पीएस 765 केवी द्वितीय डी/सी लाइन                                                                                                                           | मार्ग की लम्बाई:110 कि.मी.                                                                                                                                                                                                              |
| 7. | केपीएस1 (जीआईएस) - भुज पीएस 765 केवी डी/सी लाइन के लिए केपीएस1 (जीआईएस) और भुज पीएस प्रत्येक में दो 765 केवी लाइन वे                                                               | <ul style="list-style-type: none"> <li>765 केवी लाइन वे (जीआईएस)-2 (केपीएस1 छोर बस सेक्शन-II में)</li> <li>765 केवी लाइन वे (एआईएस)-2 (भुज छोर में)</li> </ul>                                                                          |
| 8. | केपीएस3 (जीआईएस) - लकाडिया 765 केवी डी/सी लाइन (एनजीआर बाइपास व्यवस्था के साथ) - के केपीएस3 छोर पर 330 एमवीएआर स्विचबल लाइन रिएक्टर                                                | <ul style="list-style-type: none"> <li>330 एमवीएआर, 765 केवी स्विचबल लाइन रिएक्टर-2</li> <li>765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण-2</li> <li>केपीएस3 (जीआईएस) छोर पर 1x110 एमवीएआर स्पेयर स्विचबल रिकटर यूनिट</li> </ul>         |

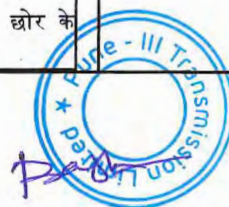


|         | <p><b>टिप्पणी:</b></p> <p>I. वन-एंड-हाफ ब्रेकर स्कीम में व्यास (जीआईएस) को पूरा करने के लिए आवश्यक -वे (वेज) को भी टीएसपी द्वारा निष्पादित किया जाएगा।</p> <p>II. केपीएस3 का टीएसपी क्रम संख्या 1,2,4,5 और 8 में परिकल्पित कार्य के लिए स्थान प्रदान करेगा।</p> <p>III. वर्तमान स्कीम के टीएसपी द्वारा केपीएस3 के क्रम संख्या 5 में विनिर्दिष्ट स्टेटकाम (एमएससी/एमएसआर के साथ) की संस्थापना के लिए अतिरिक्त भूमि की व्यवस्था की जाएगी और केपीएस3 के टीएसपी द्वारा स्टेटकाम की समाप्ति के लिए एक 400 केवी वे के लिए स्थान प्रदान किया जाएगा।</p> <p>IV. केपीएस1 और भुज पीएस का टीएसपी क्रम संख्या 7 में परिकल्पित कार्य के लिए स्थान प्रदान करेगा।</p> <p>V. वर्तमान स्कीम का टीएसपी कार्यान्वयन के लिए वन-एंड-हाफ ब्रेकर एआईएस स्कीम में 1 मुख्य वे और 1 टाई वे (प्रत्येक व्यास के लिए) से युक्त दो(2) 765 केवी व्यास के निर्माण के लिए लकाडिया एस/एस से सटे अतिरिक्त भूमि की व्यवस्था करेगा एवं लकाडिया एस/एस (एस क्रम संख्या 4 पर) पर दो(2) 765 केवी लाइन वे केपीएस3-लकाडिया 765 केवी डी/सी लाइन से जुड़े हैं और इसे भविष्य में व्यास पूर्णता के लिए दूसरे मुख्य वे (स्विचबल लाइन रिएक्टर के साथ भावी लाइन) के एकीकरण के लिए आगे बढ़ाया जाएगा।</p> <p>VI. ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी।</p> <p>VII. उपर्युक्त उल्लिखित कार्यान्वयन की समय-अवधि अनंतिम है। अंतिम समय-अवधि आरएफपी दस्तावेज़ में दर्शायी जाएगी।</p>                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |             |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 2.      | <p><b>चरण-IV (7 गीगावाट) के तहत गुजरात के खावड़ा क्षेत्र में संभावित नवीकरणीय ऊर्जा क्षेत्र से विद्युत की निकासी के लिए पारेषण प्रणाली: भाग बी</b></p> <p>संभावित कार्यान्वयन समय अवधि: एसपीवी अंतरण और खावड़ा पीएच-IV (7 गीगावाट) के भाग ए, सी और डी के साथ मिलान से 24 महीने</p> <p><b>कार्यक्षेत्र:</b></p> <table border="1"> <thead> <tr> <th>क्र.सं.</th><th>पारेषण स्कीम का कार्यक्षेत्र</th><th>क्षमता/किमी</th></tr> </thead> <tbody> <tr> <td>1.</td><td> <p>2x330 एमवीएआर, 765 केवी और 1x125 एमवीएआर, 420 केवी बस रिएक्टरों के साथ ओलपौड के दक्षिण में (ओलपौड और इच्छापुर के बीच) उपयुक्त स्थान पर 2x1500 एमवीए, 765/400 केवी और 2x500 एमवीए, 400/220 केवी जीआईएस एस/एस की स्थापना</p> <p><b>भावी प्रावधान</b></p> <p>के लिए स्थान:</p> <ul style="list-style-type: none"> <li>765/400 केवी आईसीटी सहित वे-4</li> <li>स्विचबल लाइन रिएक्टरों सहित 765 केवी लाइन वे - 8</li> <li>वे सहित 765 केवी बस रिएक्टर: 2</li> <li>765 केवी सेक्शनलाइज़र वे: 1 - सेट</li> <li>स्विचबल लाइन रिएक्टर सहित 400 केवी लाइन वे - 8</li> <li>वे सहित 400/220 केवी आईसीटी - 8</li> <li>वे सहित 420 केवी बस रिएक्टर: 3</li> <li>400 केवी सेक्शनलाइज़र वे: 1- सेट</li> </ul> </td><td> <ul style="list-style-type: none"> <li>765/400 केवी, 1x1500 एमवीए आईसीटी-2 (एक स्पेयर इकाई सहित 7x500 एमवीए एकल चरण इकाइयाँ)</li> <li>400/220 केवी, 500 एमवीए आईसीटी - 2</li> <li>765 केवी आईसीटी वे-2</li> <li>400 केवी आईसीटी वे- 4</li> <li>220 केवी आईसीटी वे- 2</li> <li>220 केवी वीसी वे - 1</li> <li>330 एमवीएआर, 765 केवी बस रिएक्टर-2</li> <li>125 एमवीएआर, 420 केवी बस रिएक्टर-1</li> <li>765 केवी रिएक्टर वे- 2</li> <li>765 केवी लाइन वे- 4</li> </ul> </td></tr> </tbody> </table> | क्र.सं.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | पारेषण स्कीम का कार्यक्षेत्र | क्षमता/किमी | 1. | <p>2x330 एमवीएआर, 765 केवी और 1x125 एमवीएआर, 420 केवी बस रिएक्टरों के साथ ओलपौड के दक्षिण में (ओलपौड और इच्छापुर के बीच) उपयुक्त स्थान पर 2x1500 एमवीए, 765/400 केवी और 2x500 एमवीए, 400/220 केवी जीआईएस एस/एस की स्थापना</p> <p><b>भावी प्रावधान</b></p> <p>के लिए स्थान:</p> <ul style="list-style-type: none"> <li>765/400 केवी आईसीटी सहित वे-4</li> <li>स्विचबल लाइन रिएक्टरों सहित 765 केवी लाइन वे - 8</li> <li>वे सहित 765 केवी बस रिएक्टर: 2</li> <li>765 केवी सेक्शनलाइज़र वे: 1 - सेट</li> <li>स्विचबल लाइन रिएक्टर सहित 400 केवी लाइन वे - 8</li> <li>वे सहित 400/220 केवी आईसीटी - 8</li> <li>वे सहित 420 केवी बस रिएक्टर: 3</li> <li>400 केवी सेक्शनलाइज़र वे: 1- सेट</li> </ul> | <ul style="list-style-type: none"> <li>765/400 केवी, 1x1500 एमवीए आईसीटी-2 (एक स्पेयर इकाई सहित 7x500 एमवीए एकल चरण इकाइयाँ)</li> <li>400/220 केवी, 500 एमवीए आईसीटी - 2</li> <li>765 केवी आईसीटी वे-2</li> <li>400 केवी आईसीटी वे- 4</li> <li>220 केवी आईसीटी वे- 2</li> <li>220 केवी वीसी वे - 1</li> <li>330 एमवीएआर, 765 केवी बस रिएक्टर-2</li> <li>125 एमवीएआर, 420 केवी बस रिएक्टर-1</li> <li>765 केवी रिएक्टर वे- 2</li> <li>765 केवी लाइन वे- 4</li> </ul> | <p>पीएफसी कंसल्टिंग लिमिटेड</p> |
| क्र.सं. | पारेषण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | क्षमता/किमी                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                              |             |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                 |
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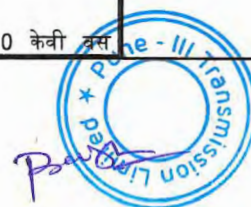




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|    | <ul style="list-style-type: none"> <li>○ 220 केवी लाइन वे: 18</li> <li>○ 220 केवी सेक्शनलाइजेशन वे: 1 सेट</li> <li>○ 220 केवी वीसी: 1</li> <li>○ 2500 मेगावाट, <math>\pm 500</math> केवी साउथ ओलपौड (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन (2x1250 मेगावाट) की संस्थापना</li> </ul> | <ul style="list-style-type: none"> <li>● 400 केवी रिएक्टर वे-1</li> <li>● 400 केवी लाइन वे- 4</li> <li>● 110 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (लाइन/बस रिएक्टर के लिए स्पेयर यूनिट)-1</li> </ul>                                                                                                                                                                                   |  |
| 2. | वडोदरा (जीआईएस)-साउथ ओलपाड (जीआईएस) 765 केवी डी/सी लाइन                                                                                                                                                                                                                         | मार्ग की लंबाई: 140 किमी                                                                                                                                                                                                                                                                                                                                                            |  |
| 3. | वडोदरा (जीआईएस) - साउथ ओलपाड (जीआईएस) 765 केवी डी/सी लाइन (एनजीआर बाईपास व्यवस्था के साथ) के वडोदरा (जीआईएस) के छोर पर प्रत्येक सीकेटी पर 240 एमवीएआर स्विचेबल लाइन रिएक्टर                                                                                                     | <ul style="list-style-type: none"> <li>● 240 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर- 2</li> <li>● 765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण -2</li> <li>● स्पेयर के रूप में उपयोग के लिए वडोदरा (जीआईएस) में 1x80 एमवीएआर स्पेयर बस रिएक्टर उपलब्ध है</li> </ul>                                                                                                                 |  |
| 4. | वडोदरा (जीआईएस)-साउथ ओलपौड (जीआईएस) 765 केवी डी/सी लाइनके लिए दो 765 केवी लाइन वे                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>● 765 केवी लाइन (जीआईएस) वे - 2 (वडोदरा छोर पर)</li> </ul>                                                                                                                                                                                                                                                                                   |  |
| 5. | नाममात्र वोल्टेज पर 1700 एमवीए प्रति सीकेटी की न्यूनतम क्षमता के साथ ट्रिवन एचटीएलएस कंडक्टर का उपयोग करके दक्षिण ओलपौड (जीआईएस) में गांधार-हजीरा 400 केवी डी/सी लाइन का लीलो                                                                                                   | लीलो मार्ग की लंबाई ~ 10 किमी।                                                                                                                                                                                                                                                                                                                                                      |  |
| 6. | अहमदाबाद-दक्षिण ओलपौड (जीआईएस) 765 केवी डी/सी लाइन                                                                                                                                                                                                                              | मार्ग की लंबाई: 250 किमी                                                                                                                                                                                                                                                                                                                                                            |  |
| 7. | अहमदाबाद - दक्षिण ओलपैड (जीआईएस) 765 केवी डी/सी लाइन (एनजीआर बाईपास व्यवस्था के साथ) के अहमदाबाद और दक्षिण ओलपैड (जीआईएस) के छोर पर प्रत्येक सीकेटी पर 240 एमवीएआर स्विचेबल लाइन रिएक्टर                                                                                        | <ul style="list-style-type: none"> <li>● 240 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर-4 [अहमदाबाद छोर के लिए 2 और दक्षिण ओलपैड (जीआईएस) छोर के लिए 2]</li> <li>● 765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण - 4 [अहमदाबाद छोर के लिए 2 और दक्षिण ओलपैड (जीआईएस) छोर के लिए 2]</li> <li>● 1x80 एमवीएआर, 765 केवी 1-पीएच स्पेयर लाइन रिएक्टर - 1 (दक्षिण ओलपैड छोर के लिए)</li> </ul> |  |



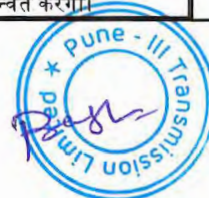
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"><li>1x80 एमवीएआर, 765 केवी 1-पीएच स्पेयर लाइन रिएक्टर लकाड़िया- अहमदाबाद लाइन (खावड़ा चरण- II भाग-ख स्कीम के अंतर्गत) के लिए कार्यान्वित किया जा रहा है जिसे स्पेयर के रूप में उपयोग किया जाएगा।</li></ul>                                                                                                                              |                               |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                           |                                             |
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| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | अहमदाबाद-दक्षिण ओलपैड (जीआईएस) 765 केवी डी/सी लाइन के लिए अहमदाबाद एस/एस में 765 केवी लाइन वे 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"><li>765 केवी लाइन वे (एआईएस) - 2 (अहमदाबाद छोर पर)</li></ul>                                                                                                                                                                                                                                                                            |                               |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                           |                                             |
| <b>टिप्पणी:</b> <ul style="list-style-type: none"><li>I. वडोदरा एस/एस का टीएसपी ऊपर दिए गए क्रमांक 3 और 4 पर परिकल्पित कार्य के लिए स्थान उपलब्ध कराएगा।</li><li>II. अहमदाबाद एस/एस का टीएसपी ऊपर दिए गए क्रमांक 7 और 8 पर परिकल्पित कार्य के लिए स्थान उपलब्ध कराएगा।</li><li>III. ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी।</li><li>IV. ऊपर उल्लिखित कार्यान्वयन समयअवधि अस्थायी है। अंतिम समयअवधि आरएफपी दस्तावेज़ में इंगित की जाएगी।</li></ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                           |                               |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                           |                                             |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p><b>चरण-IV (7 गीगावाट) के तहत गुजरात के खावड़ा क्षेत्र में संभावित नवीकरणीय ऊर्जा क्षेत्र से विद्युत की निकासी के लिए परीक्षण प्रणाली : भाग सी</b></p> <p>संभावित कार्यान्वयन समय अवधि: एसपीवी अंतरण और खावड़ा के भाग ए, बी और डी के साथ मिलान से 24 महीने चरण-IV (7 गीगावाट)</p> <p><b>कार्यक्षेत्र:</b></p> <table><thead><tr><th>क्र.सं.</th><th>परीक्षण स्कीम का कार्यक्षेत्र</th><th>क्षमता</th></tr></thead><tbody><tr><td>1.</td><td>4x1500 एमवीए, 765/400 केवी और 2x500 एमवीए, 2X330 एमवीएआर सहित 400/220 केवी बोइसर-II (जीआईएस) एस/एस, 765 केवी बस रिएक्टर तथा 2X125 एमवीएआर, 420 केवी बस रिएक्टरों की स्थापना।<br/>(2x1500 एमवीए, 765/400 केवी आईसीटी प्रत्येक 400 केवी सेक्शन पर होंगे और 2x500 एमवीए, 400/220 केवी आईसीटी 400 केवी बस सेक्शन-II पर होंगे। 2x125 एमवीएआर बस रिएक्टर ऐसे होंगे कि प्रत्येक पर एक बस रिएक्टर रखा जाएगा। 400 केवी बस सेक्शनलाइज़र को सामान्य रूप से खुली स्थिति में रखा जाएगा)<br/><b>मविष्य के प्रावधान:</b><br/>के लिए स्थान:</td><td>765/400 केवी, 1500 एमवीए आईसीटी- 4 (एक स्पेयर इकाई सहित 13x500 एमवीए एकल चरण इकाइयां)<br/>400/220 केवी, 500 एमवीए आईसीटी - 2<br/>765 केवी आईसीटी वे- 4<br/>400 केवी आईसीटी वे- 6(बस सेक्शन-I पर 2 और बस सेक्शन-II पर 4)<br/>400 केवी बस सेक्शनलाइज़र-1 सेट<br/>220 केवी आईसीटी वे- 2<br/>220 केवी बीसी वे - 1<br/>330 एमवीएआर, 765 केवी बस रिएक्टर-2<br/>125 एमवीएआर, 420 केवी बस</td></tr></tbody></table> | क्र.सं.                                                                                                                                                                                                                                                                                                                                                                   | परीक्षण स्कीम का कार्यक्षेत्र | क्षमता | 1. | 4x1500 एमवीए, 765/400 केवी और 2x500 एमवीए, 2X330 एमवीएआर सहित 400/220 केवी बोइसर-II (जीआईएस) एस/एस, 765 केवी बस रिएक्टर तथा 2X125 एमवीएआर, 420 केवी बस रिएक्टरों की स्थापना।<br>(2x1500 एमवीए, 765/400 केवी आईसीटी प्रत्येक 400 केवी सेक्शन पर होंगे और 2x500 एमवीए, 400/220 केवी आईसीटी 400 केवी बस सेक्शन-II पर होंगे। 2x125 एमवीएआर बस रिएक्टर ऐसे होंगे कि प्रत्येक पर एक बस रिएक्टर रखा जाएगा। 400 केवी बस सेक्शनलाइज़र को सामान्य रूप से खुली स्थिति में रखा जाएगा)<br><b>मविष्य के प्रावधान:</b><br>के लिए स्थान: | 765/400 केवी, 1500 एमवीए आईसीटी- 4 (एक स्पेयर इकाई सहित 13x500 एमवीए एकल चरण इकाइयां)<br>400/220 केवी, 500 एमवीए आईसीटी - 2<br>765 केवी आईसीटी वे- 4<br>400 केवी आईसीटी वे- 6(बस सेक्शन-I पर 2 और बस सेक्शन-II पर 4)<br>400 केवी बस सेक्शनलाइज़र-1 सेट<br>220 केवी आईसीटी वे- 2<br>220 केवी बीसी वे - 1<br>330 एमवीएआर, 765 केवी बस रिएक्टर-2<br>125 एमवीएआर, 420 केवी बस | आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड |
| क्र.सं.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | परीक्षण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | क्षमता                                                                                                                                                                                                                                                                                                                                                                    |                               |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                           |                                             |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 4x1500 एमवीए, 765/400 केवी और 2x500 एमवीए, 2X330 एमवीएआर सहित 400/220 केवी बोइसर-II (जीआईएस) एस/एस, 765 केवी बस रिएक्टर तथा 2X125 एमवीएआर, 420 केवी बस रिएक्टरों की स्थापना।<br>(2x1500 एमवीए, 765/400 केवी आईसीटी प्रत्येक 400 केवी सेक्शन पर होंगे और 2x500 एमवीए, 400/220 केवी आईसीटी 400 केवी बस सेक्शन-II पर होंगे। 2x125 एमवीएआर बस रिएक्टर ऐसे होंगे कि प्रत्येक पर एक बस रिएक्टर रखा जाएगा। 400 केवी बस सेक्शनलाइज़र को सामान्य रूप से खुली स्थिति में रखा जाएगा)<br><b>मविष्य के प्रावधान:</b><br>के लिए स्थान:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 765/400 केवी, 1500 एमवीए आईसीटी- 4 (एक स्पेयर इकाई सहित 13x500 एमवीए एकल चरण इकाइयां)<br>400/220 केवी, 500 एमवीए आईसीटी - 2<br>765 केवी आईसीटी वे- 4<br>400 केवी आईसीटी वे- 6(बस सेक्शन-I पर 2 और बस सेक्शन-II पर 4)<br>400 केवी बस सेक्शनलाइज़र-1 सेट<br>220 केवी आईसीटी वे- 2<br>220 केवी बीसी वे - 1<br>330 एमवीएआर, 765 केवी बस रिएक्टर-2<br>125 एमवीएआर, 420 केवी बस |                               |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                           |                                             |



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|    | <ul style="list-style-type: none"> <li>○ 765/400 केवी आईसीटी वे सहित- 2</li> <li>○ स्विचेबल लाइन रिएक्टरों के साथ 765 केवी लाइन वे - 8</li> <li>○ वे सहित 765 केवी बस रिएक्टर: 2</li> <li>○ 765 केवी सेक्शनलाइज़र वे: 1 - सेट</li> <li>○ स्विचेबल लाइन रिएक्टर के साथ 400 केवी लाइन वे - 8</li> <li>○ वेज़ सहित 400/220 केवी आईसीटी - 6</li> <li>○ वे सहित 420 केवी बस रिएक्टर: 2</li> <li>○ 220 केवी लाइन वे: 12</li> <li>○ 220 केवी सेक्शनलाइज़ेशन वे: 1 सेट</li> <li>○ 220 केवी वीसी: 1</li> </ul> | रिएक्टर-2<br>765 केवी रिएक्टर वे- 2<br>765 केवी लाइन वे- 6<br>400 केवी रिएक्टर वे- 2 (प्रत्येक बस सेक्शन पर एक)<br>400 केवी लाइन वे- 6 (बस सेक्शन-I पर 4 और बस सेक्शन-II पर 2)<br>110 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (लाइन/बस रिएक्टर के लिए स्पेयरयूनिट)-1                                                                                                                                                                                                                                                                                                                                                         |
| 2. | साउथ ओलपैड (जीआईएस) - बोइसर -II (जीआईएस) 765 केवी डी/सी लाइन                                                                                                                                                                                                                                                                                                                                                                                                                                          | मार्ग की लंबाई: 225 किमी                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 3. | दक्षिण ओलपैड (जीआईएस) - बोइसर- II (जीआईएस) 765 केवी डी/सी लाइन के समापन के लिए साउथ ओलपैड (जीआईएस) में दो 765 केवी लाइन वे                                                                                                                                                                                                                                                                                                                                                                            | 765 केवी लाइन वे (जीआईएस) - 2 (दक्षिण ओलपैड छोर के लिए)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4. | साउथ ओलपैड (जीआईएस) - बोइसर -II (जीआईएस) 765 केवी डी/सी लाइन (एनजीआर वाईपास व्यवस्था के साथ) के साउथ ओलपैड (जीआईएस) और बोइसर- II (जीआईएस) छोर पर प्रत्येक सीकेटी पर 240 एमवीएआर स्विचेबल लाइन रिएक्टर                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>• 240 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर-4 [बोइसर-II (जीआईएस) के लिए 2 और साउथ ओलपैड (जीआईएस) के लिए 2]</li> <li>• 765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण - 4 (बोइसर -II (जीआईएस) के लिए 2 और साउथ ओलपैड (जीआईएस) के लिए 2)</li> <li>• 1x80 एमवीएआर, 765 केवी 1-पीएच स्पेयर लाइन रिएक्टर - 1 (बोइसर-II छोर के लिए)</li> <li>• 1x80 एमवीएआर, 765 केवी 1-पीएच स्पेयर लाइन रिएक्टर अहमदाबाद-दक्षिण ओलपैड (जीआईएस) 765 केवी लाइन (खावड़ा चरण-IV भाग बी स्कीम के तहत) के लिए प्रस्तावित है जिसे दक्षिण ओलपैड (जीआईएस) एस/एस स्पेयर के रूप में उपयोग किया जाएगा।</li> </ul> |
| 5. | बोइसर-II में नवसारी (नया) का लीलो - पडघे (पीजी) 765 केवी डी/सी लाइन                                                                                                                                                                                                                                                                                                                                                                                                                                   | लीलो मार्ग की लंबाई: 25 किमी.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 6. | बोइसर- II (सेक्शन- II) - वेलगांव (एमएच) 400 केवी डी/सी (क्वाड एसीएसआर/एएसी/एएल59 मूज़ समतुल्य) लाइन                                                                                                                                                                                                                                                                                                                                                                                                   | मार्ग की लंबाई: 10 किमी.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 7. | बोइसर- II - वेलगांव (एमएच) 400 केवी डी/सी (क्वाड एसीएसआर/ एएसी/ एएल59                                                                                                                                                                                                                                                                                                                                                                                                                                 | 400 केवी लाइन वे (जीआईएस) - 2 वेलगांव (एमएच) छोर के लिए                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |



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| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | नाममात्र वोल्टेज पर 1700 एमवीए प्रति सीकेटी की न्यूनतम क्षमता के साथ जुड़वां एचटीएलएस कंडक्टर का उपयोग करते हुए बोइसर- II (सेक्शन- I) बभलेश्वर का लीलो - पडघे (एम) 400 केवी डी/सी लाइन                                                   | लीलो मार्ग की लंबाई: 65 किमी.                                                                                                                                                                                                                                                                                      |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | उपरोक्त लिलो के वाद बनाई गई बोइसर- II - बभलेश्वर 400 केवी डी/सी लाइन (एनजीआर वाईपास व्यवस्था के साथ) के बोइसर-II छोर पर 80 एमवीएआर स्विचवेल लाइन रिएक्टर                                                                                 | <ul style="list-style-type: none"> <li>• 80 एमवीएआर, 420 केवी स्विचवेल लाइन रिएक्टर जिसमें स्विचिंग उपकरण भी शामिल है - 2</li> </ul>                                                                                                                                                                               |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | बोइसर- II के 400 केवी वस सेक्शन- II पर 2x125 एमवीएआर एमएससी, 1x125 एमवीएआर एमएसआर के साथ $\pm 200$ एमवीएआर स्टेडकॉम और बोइसर- II के 400 kV वस सेक्शन- II पर 2x125 एमवीएआर एमएससी, 1x125 एमवीएआर एमएसआर के साथ $\pm 200$ एमवीएआर स्टेडकॉम | <ul style="list-style-type: none"> <li>• 400 केवी सेक्शन-I पर <math>\pm 200</math> एमवीएआर स्टेडकॉम (एमएससी/एमएसआर के साथ)</li> <li>• 400 केवी वे - सेक्शन-I पर 1</li> <li>• 400 केवी सेक्शन- II पर <math>\pm 200</math> एमवीएआर स्टेडकॉम (एमएससी/एमएसआर के साथ)</li> <li>• 400 केवी वे - सेक्शन-2 पर 1</li> </ul> |
| 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | एक 400 केवी वे (जीआईएस) के साथ नवसारी (नया) (पीजी) एस/एस के 400 केवी स्तर पर 1x125 एमवीएआर एमएसआर 3x125 एमवीएआर एमएससी के साथ $\pm 300$ एमवीएआर स्टेडकॉम                                                                                 | <ul style="list-style-type: none"> <li>• <math>\pm 300</math> एमवीएआर स्टेडकॉम (एमएससी/एमएसआर के साथ)</li> <li>• 400 केवी वे - 1</li> </ul>                                                                                                                                                                        |
| <b>टिप्पणी:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |
| <p>I. वन-एंड-हाफ ब्रेकर स्कीम में व्यास (जीआईएस) को पूरा करने के लिए अपेक्षित वे (ब्रेज) को भी टीएसपी द्वारा निष्पादित किया जाएगा।</p> <p>II. एमएसईटीसीएल पडघे (एम)-बोइसर- II 400 केवी डी/सी लाइन (अर्थात् लिलो विन्दु से लेकर पडघे (एम) तक) के शेष भाग का रीकंडक्टिंग करेगा और पडघे (एम), जैसा कि लिलो लाइन की समय-सीमा के अनुरूप आवश्यक हो, में 400 केवी वे का तदनुरूप उन्नयन भी करेगा। एमएसईटीसीएल ने लाइन की अधिकतम क्षमता की पुष्टि की है जिसे बभलेश्वर-पडघे (एम) 400 केवी डी/सी लाइन के मौजूदा टावरों में 1700 एमवीए प्रति सर्किट के रूप में क्लीयरेंस पर विचार करते हुए रिकंडक्टिंग के वाद हासिल किया जा सकता है।</p> <p>III. एमएसईटीसीएल बोइसर- II (आईएसटीएस) एस/एस पर बोइसर- II-वेलगांव 220 केवी डी/सी लाइन के दोनों सर्किटों के लिलो (एलआईएलओ) को बोइसर- II में 4(चार) 220 केवी जीआईएस वे के साथ बोइसर-II (आईएसटीएस) एस/एस, की समय-सीमा के अनुरूप क्रियान्वित करेगा।</p> <p>IV. साउथ ओलपैड (जीआईएस) एस/एस का टीएसपी क्रम संख्या 3 और 4 पर परिकल्पित कार्य के लिए स्थान उपलब्ध कराएगा।</p> <p>V. एमएसईटीसीएल वेलगांव एस/एस में क्रम संख्या 7 पर परिकल्पित कार्य के लिए स्थान उपलब्ध कराएगा।</p> <p>VI. विषय संबंधी स्कीम का टीएसपी साउथ ओलपैड (जीआईएस) - बोइसर-II (जीआईएस) 765 केवी डी/सी लाइन (मुख्य लाइन ब्रेकर के साथ दोनों छोर पर स्विच करने योग्य लाइन रिएक्टर की ट्रिपिंग के लिए) पर इंटर-ट्रिपिंग स्कीम क्रियान्वित करेगा।</p> |                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                    |



|         | <p>VII. ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी।</p> <p>VIII. ऊपर उल्लिखित कार्यान्वयन समय अवधि अनंतिम है। अंतिम समय अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी।</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                              |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                                         |                          |  |
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| 4.      | <p>चरण-IV (7 गीगावाट) के तहत गुजरात के खावड़ा क्षेत्र में संभावित नवीकरणीय ऊर्जा क्षेत्र से विद्युत की निकासी के लिए पारेषण प्रणाली: भाग डी</p> <p>संभावित क्रियान्वयन समय अवधि: एसपीवी अंतरण से 24 महीने</p> <p>कार्यक्षेत्र:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | पीएफसी कंसल्टिंग लिमिटेड                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                                         |                          |  |
|         | <table border="1"> <thead> <tr> <th data-bbox="308 891 384 958">क्र.सं.</th><th data-bbox="384 891 820 958">पारेषण स्कीम का कार्यक्षेत्र</th><th data-bbox="820 891 1123 958">क्षमता</th></tr> </thead> <tbody> <tr> <td data-bbox="308 958 384 1906">1.</td><td data-bbox="384 958 820 1906"> <p>2x330 एमवीएआर, 765 केवी वस रिएक्टर और 2x125 एमवीएआर, 420 केवी वस रिएक्टर सहित 2x1500 एमवीए, 765/400 केवी और 3x500 एमवीए, 400/220 केवी पुणे-III (जीआईएस) एस/एस की स्थापना।</p> <p><b>भावी प्रावधान:</b></p> <p>निम्नलिखित के लिए स्थान</p> <ul style="list-style-type: none"> <li>वे सहित 765/400 केवी आईसीटी-4</li> <li>स्विचेबल लाइन रिएक्टरों के साथ 765 केवी लाइन वे - 8</li> <li>वे सहित 765 केवी वस रिएक्टर: 2</li> <li>765 केवी सेक्शनलाइज़र बे: 1-सेट</li> <li>स्विचेबल लाइन रिएक्टर के साथ 400 केवी लाइन वे - 12</li> <li>वे 400/220 केवी आईसीटी -5</li> <li>वे सहित 400 केवी वस रिएक्टर: 2</li> <li>400 केवी सेक्शनलाइज़र बे: 1 सेट</li> <li>220 केवी लाइन वे: 12</li> <li>220 केवी सेक्शनलाइज़र बे: 1 सेट</li> <li>220 केवी वीसी: 1</li> <li>एमएससी (3x125 एमवीएआर) और एमएसआर (1x125 एमवीएआर) के साथ स्टेटकॉम (±300 एमवीएआर): 1 बे सहित 400 केवी: 1</li> <li>80 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (लाइन रिएक्टर के लिए अतिरिक्त यूनिट)-1</li> </ul> </td><td data-bbox="820 958 1123 1906"> <p>765/400 केवी, 1500 एमवीए आईसीटी-2 (एक स्पेयर यूनिट सहित 7x500 एमवीए)</p> <p>400/220 केवी, 500 एमवीए आईसीटी - 3</p> <p>765 केवी आईसीटी वे- 2</p> <p>400 केवी आईसीटी वे- 5</p> <p>220 केवी आईसीटी वे- 3</p> <p>220 केवी वीसी वे - 1</p> <p>330 एमवीएआर, 765 केवी वस रिएक्टर-2</p> <p>125 एमवीएआर, 420 केवी वस रिएक्टर-2</p> <p>765 केवी रिएक्टर वे- 2</p> <p>765 केवी लाइन वे- 6</p> <p>400 केवी रिएक्टर वे- 2</p> <p>400 केवी लाइन वे- 2</p> <p>110 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (लाइन/वस रिएक्टर के लिए अतिरिक्त यूनिट)-1</p> </td></tr> <tr> <td data-bbox="308 1906 384 1968">2.</td><td data-bbox="384 1906 820 1968">बोईसर-II - पुणे-III 765 केवी डी/सी लाइन</td><td data-bbox="820 1906 1123 1968">मार्ग की लंबाई: 200 किमी</td></tr> </tbody> </table> | क्र.सं.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | पारेषण स्कीम का कार्यक्षेत्र | क्षमता | 1. | <p>2x330 एमवीएआर, 765 केवी वस रिएक्टर और 2x125 एमवीएआर, 420 केवी वस रिएक्टर सहित 2x1500 एमवीए, 765/400 केवी और 3x500 एमवीए, 400/220 केवी पुणे-III (जीआईएस) एस/एस की स्थापना।</p> <p><b>भावी प्रावधान:</b></p> <p>निम्नलिखित के लिए स्थान</p> <ul style="list-style-type: none"> <li>वे सहित 765/400 केवी आईसीटी-4</li> <li>स्विचेबल लाइन रिएक्टरों के साथ 765 केवी लाइन वे - 8</li> <li>वे सहित 765 केवी वस रिएक्टर: 2</li> <li>765 केवी सेक्शनलाइज़र बे: 1-सेट</li> <li>स्विचेबल लाइन रिएक्टर के साथ 400 केवी लाइन वे - 12</li> <li>वे 400/220 केवी आईसीटी -5</li> <li>वे सहित 400 केवी वस रिएक्टर: 2</li> <li>400 केवी सेक्शनलाइज़र बे: 1 सेट</li> <li>220 केवी लाइन वे: 12</li> <li>220 केवी सेक्शनलाइज़र बे: 1 सेट</li> <li>220 केवी वीसी: 1</li> <li>एमएससी (3x125 एमवीएआर) और एमएसआर (1x125 एमवीएआर) के साथ स्टेटकॉम (±300 एमवीएआर): 1 बे सहित 400 केवी: 1</li> <li>80 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (लाइन रिएक्टर के लिए अतिरिक्त यूनिट)-1</li> </ul> | <p>765/400 केवी, 1500 एमवीए आईसीटी-2 (एक स्पेयर यूनिट सहित 7x500 एमवीए)</p> <p>400/220 केवी, 500 एमवीए आईसीटी - 3</p> <p>765 केवी आईसीटी वे- 2</p> <p>400 केवी आईसीटी वे- 5</p> <p>220 केवी आईसीटी वे- 3</p> <p>220 केवी वीसी वे - 1</p> <p>330 एमवीएआर, 765 केवी वस रिएक्टर-2</p> <p>125 एमवीएआर, 420 केवी वस रिएक्टर-2</p> <p>765 केवी रिएक्टर वे- 2</p> <p>765 केवी लाइन वे- 6</p> <p>400 केवी रिएक्टर वे- 2</p> <p>400 केवी लाइन वे- 2</p> <p>110 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (लाइन/वस रिएक्टर के लिए अतिरिक्त यूनिट)-1</p> | 2. | बोईसर-II - पुणे-III 765 केवी डी/सी लाइन | मार्ग की लंबाई: 200 किमी |  |
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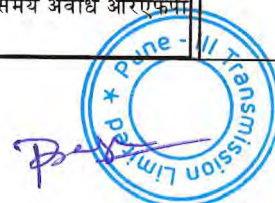




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| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | बोइसर - II - पुणे- III 765 केवी डी/सी लाइन (एनजीआर बाईपास व्यवस्था के साथ) के पुणे- III छोर पर 330 एमवीएआर स्विचेबल लाइन रिएक्टर                                                     | <ul style="list-style-type: none"> <li>• 330 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर-2</li> <li>• 765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण-2</li> <li>• पुणे-III (जीआईएस) में स्पेयर के रूप में उपयोग के लिए उपलब्ध 1x110 एमवीएआर स्पेयर बस रिएक्टर</li> </ul>  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | बोइसर- II -पुणे- III 765 केवी डी/सी लाइन के समापन के लिए बोइसर- II में दो 765 केवी लाइन बे                                                                                           | <ul style="list-style-type: none"> <li>• 765 केवी लाइन बे (जीआईएस) - 2 (बोइसर-II छोर के लिए)</li> </ul>                                                                                                                                                            |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | नरेंद्र (नया) का लीलो - पुणे (जीआईएस) पुणे-III पर 765 केवी डी/सी लाइन                                                                                                                | लीलो मार्ग की लंबाई: 10 किमी.                                                                                                                                                                                                                                      |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | नरेंद्र (न्यू) - पुणे- III ( जीआईएस) 765 केवी डी/सी लाइन (एनजीआर बाईपास व्यवस्था के साथ) के पुणे- III छोर पर 330 एमवीएआर स्विचेबल लाइन रिएक्टर।                                      | <ul style="list-style-type: none"> <li>• 330 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर-2</li> <li>• 765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण-2</li> <li>• पुणे- III (जीआईएस) में स्पेयर के रूप में उपयोग के लिए उपलब्ध 1x110 एमवीएआर स्पेयर बस रिएक्टर</li> </ul> |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | पुणे-III (जीआईएस) एस/एस में हिजेवाड़ी-कोयना 400 केवी एस/सी लाइन का लिलो                                                                                                              | लीलो मार्ग की लंबाई: 40 किमी.                                                                                                                                                                                                                                      |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | उपर्युक्त लीलो (एनजीआर बाईपास व्यवस्था के साथ) के बाद बनाई गई पुणे-III (जीआईएस)-कोयना 400 केवी एस/सी लाइन के छोर पर पुणे-III (जीआईएस) में 80 एमवीएआर, 420 केवी स्विचेबल लाइन रिएक्टर | <ul style="list-style-type: none"> <li>• स्विचिंग उपकरण के साथ 80 एमवीएआर, 420 केवी स्विचेबल लाइन रिएक्टर- 1</li> </ul>                                                                                                                                            |
| <b>टिप्पणी:</b> <ol style="list-style-type: none"> <li>वन-एंड-हाफ ब्रेकर स्कीम में ब्यास (जीआईएस) को पूरा करने के लिए आवश्यक बे(बेज) को भी टीएसपी द्वारा निष्पादित किया जाएगा।</li> <li>पुणे (जीआईएस) के पुणे (जीआईएस) छोर पर मुख्य लाइन ब्रेकर के साथ 330 एमवीएआर स्विचेबल लाइन रिएक्टर की ट्रिपिंग के लिए इंटर-ट्रिपिंग स्कीम के लिए तर्क - नरेंद्र (न्यू) 765 केवी डी/सी लाइन को पुणे -3 में नरेंद्र (न्यू) - पुणे (जीआईएस) 765 केवी डी/सी लाइन के लिलो के बाद लाइन के स्वामी द्वारा क्रियान्वित किया जाएगा।</li> <li>एमएसईटीसीएल पुणे-III एस/एस की मिलान समय-सीमा में पुणे-III (जीआईएस) एस/एस में 5 220 केवी जीआईएस बे के साथ निम्नलिखित 220 केवी लाइनों को क्रियान्वित करेगा:</li> </ol> |                                                                                                                                                                                      |                                                                                                                                                                                                                                                                    |



|         | <p>क. जेजुरी-फुरसुंगी के दोनों सर्किटों का लिलो पुणे-III एस/एस में एचटीएलएस कंडक्टर (दिवन जेब्रा समतुल्य) के साथ एचटीएलएस कंडक्टर (दिवन जेब्रा समतुल्य) के साथ शेष लाइन सेक्शन अर्थात् लिलो प्वाइंट फुरसुंगी और एलआईएलओ एचटीएलएस कंडक्टर (दिवन जेब्रा समकक्ष) के साथ जेजुरी को इंगित करता है।</p> <p>ख. नांदेड शहर - पुणे पीजी III 220 केवी एस/सी लाइन एचटीएलएस कंडक्टर के साथ (दिवन जेब्रा समकक्ष)</p> <p>iv. बोडसर-II एस/एस का टीएसपी क्रम संख्या 4 पर परिकल्पित कार्य के लिए जगह उपलब्ध कराएगा।</p> <p>v. ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी।</p> <p>vi. ऊपर उल्लिखित कार्यान्वयन समय अवधि अनंतिम है। अंतिम समय अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी।</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                 |                              |        |    |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                 |                                             |
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| 5.      | <p><b>चरण-IV (7 गीगावाट) के अंतर्गत गुजरात के खावड़ा क्षेत्र में संभावित नवीकरणीय ऊर्जा क्षेत्र से विद्युत की निकासी के लिए पारेषण प्रणाली: भाग ई2</b></p> <p>अनंतिम कार्यान्वयन समय अवधि: एसपीवी अंतरण से 21 महीने</p> <p><b>कार्यक्षेत्र:</b></p> <table border="1"> <thead> <tr> <th>क्र.सं.</th><th>पारेषण योजना का कार्यक्षेत्र</th><th>क्षमता</th></tr> </thead> <tbody> <tr> <td>1.</td><td>आरई अंतरसंपर्क के लिए केपीएस2 (जीआईएस) में 2x1500 एमवीए, बस सेक्शन-I (5वां व 6वां) पर 765/400 केवीए आईसीटी, बस सेक्शन-II (7वां व 8वां) पर 765/400 केवीए आईसीटी और आरई अंतरसंपर्क के लिए बस सेक्शन-I में 2 400 केवीए और आरई अंतरसंपर्क के लिए बस सेक्शन-II में 3 400 केवीए के संवर्द्धन।</td><td>1500 एमवीए, 765/400 केवी आईसीटी-4<br/>765 केवी वे-4 (2 आईसीटी के लिए पूर्ण व्यास (प्रत्येक बस सेक्शन में एक) और शेष 2 आईसीटी को अतिरिक्त वे (प्रत्येक सेक्शन में एक) में समाप्त किया जाएगा)<br/>[4 आईसीटी वे (प्रत्येक सेक्शन पर 2) और 5 लाइन वे (बस सेक्शन -1 पर 2 और बस सेक्शन-II पर 3) के साथ-साथ बस सेक्शन-II पर 1 वे व्यास पूरा करने के लिए]</td></tr> </tbody> </table> <p><b>टिप्पणी:</b></p> <p>i. टीएसपी वन-एंड-हाफ ब्रेकर स्कीम में केपीएस2 (जीआईएस) के 765 केवी स्तर पर दो पूर्ण व्यास (बस सेक्शन I पर 1 और बस सेक्शन-II पर 1) क्रियान्वित करेगा, जिसमें व्यास (जीआईएस) को पूरा करने के लिए आवश्यक 2 मुख्य वे और 1 टाई-वे शामिल हैं।</p> <p>ii. टीएसपी वन-एंड-हाफ ब्रेकर स्कीम में केपीएस2 (जीआईएस) के 400 केवी स्तर पर पांच पूर्ण व्यास (बस सेक्शन-I पर 2 और बस सेक्शन-II पर 3) क्रियान्वित करेगा, जिसमें व्यास (जीआईएस) को पूरा करने के लिए आवश्यक 2 मुख्य वे और 1 टाई-वे शामिल हैं।</p> <p>iii. इसके अतिरिक्त, केपीएस2 का टीएसपी उपरोक्त संवर्द्धन कार्य को पूरा करने के लिए जगह उपलब्ध कराएगा।</p> <p>iv. केपीएस2 में आरई अंतरसंपर्क के लिए बस सेक्शन-I में 2 400 केवी वे और आरई अंतरसंपर्क के लिए बस सेक्शन-II में एक 400 केवी वे पहले से ही क्रियान्वित किए जा रहे हैं।</p> <p>v. ऊपर उल्लिखित कार्यान्वयन समय अवधि अनंतिम है। अंतिम समय अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी।</p> | क्र.सं.                                                                                                                                                                                                                                                                                                                                         | पारेषण योजना का कार्यक्षेत्र | क्षमता | 1. | आरई अंतरसंपर्क के लिए केपीएस2 (जीआईएस) में 2x1500 एमवीए, बस सेक्शन-I (5वां व 6वां) पर 765/400 केवीए आईसीटी, बस सेक्शन-II (7वां व 8वां) पर 765/400 केवीए आईसीटी और आरई अंतरसंपर्क के लिए बस सेक्शन-I में 2 400 केवीए और आरई अंतरसंपर्क के लिए बस सेक्शन-II में 3 400 केवीए के संवर्द्धन। | 1500 एमवीए, 765/400 केवी आईसीटी-4<br>765 केवी वे-4 (2 आईसीटी के लिए पूर्ण व्यास (प्रत्येक बस सेक्शन में एक) और शेष 2 आईसीटी को अतिरिक्त वे (प्रत्येक सेक्शन में एक) में समाप्त किया जाएगा)<br>[4 आईसीटी वे (प्रत्येक सेक्शन पर 2) और 5 लाइन वे (बस सेक्शन -1 पर 2 और बस सेक्शन-II पर 3) के साथ-साथ बस सेक्शन-II पर 1 वे व्यास पूरा करने के लिए] | आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड |
| क्र.सं. | पारेषण योजना का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | क्षमता                                                                                                                                                                                                                                                                                                                                          |                              |        |    |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                 |                                             |
| 1.      | आरई अंतरसंपर्क के लिए केपीएस2 (जीआईएस) में 2x1500 एमवीए, बस सेक्शन-I (5वां व 6वां) पर 765/400 केवीए आईसीटी, बस सेक्शन-II (7वां व 8वां) पर 765/400 केवीए आईसीटी और आरई अंतरसंपर्क के लिए बस सेक्शन-I में 2 400 केवीए और आरई अंतरसंपर्क के लिए बस सेक्शन-II में 3 400 केवीए के संवर्द्धन।                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1500 एमवीए, 765/400 केवी आईसीटी-4<br>765 केवी वे-4 (2 आईसीटी के लिए पूर्ण व्यास (प्रत्येक बस सेक्शन में एक) और शेष 2 आईसीटी को अतिरिक्त वे (प्रत्येक सेक्शन में एक) में समाप्त किया जाएगा)<br>[4 आईसीटी वे (प्रत्येक सेक्शन पर 2) और 5 लाइन वे (बस सेक्शन -1 पर 2 और बस सेक्शन-II पर 3) के साथ-साथ बस सेक्शन-II पर 1 वे व्यास पूरा करने के लिए] |                              |        |    |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                 |                                             |

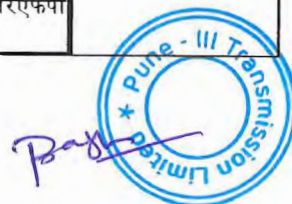




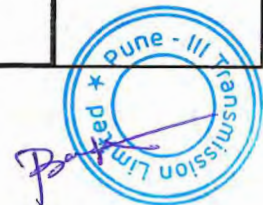
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| 6.     | <p>चरण-V (8 गीगावाट) के अंतर्गत गुजरात के खावड़ा क्षेत्र में संभावित नवीकरणीय ऊर्जा क्षेत्र से विद्युत की निकासी के लिए पारेषण प्रणाली: भाग ए</p> <p>संभावित कार्यान्वयन समय अवधि: एसपीवी ट्रांसफर से बाइपोल-1 के लिए 48 महीने और बाइपोल-2 के लिए 54 महीने</p> <p>कार्यक्षेत्र:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <p>आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| क्र.सं | पारेषण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | क्षमता                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 1.     | 400 केवी एचवीएसी स्विचयार्ड के साथ सहायक अंतरसम्पर्क के साथ $\pm 800$ केवी केपीएस2 (एचवीडीसी) [एलसीसी] टर्मिनल स्टेशन (4x1500 मेगावाट), 6000 मेगावाट की संस्थापना                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6000 मेगावाट, $\pm 800$ केवी केपीएस3 (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2.     | 400 केवी एचवीएसी स्विचयार्ड के साथ अंतरसम्पर्कों के साथ $\pm 800$ केवी नागपुर (एचवीडीसी) [एलसीसी] टर्मिनल स्टेशन (4x1500 मेगावाट), 6000 मेगावाट की संस्थापना                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6000 मेगावाट, $\pm 800$ केवी साउथ ओलपैड (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 3.     | केपीएस2 (एचवीडीसी) और नागपुर (एचवीडीसी) के मध्य $\pm 800$ केवी एचवीडीसी बाइपोल लाइन (हेक्सा लैपविंग) (1200 किमी) (समर्पित मेटैलिक रिटर्न के साथ) (जैसा कि निर्दिष्ट ओवरलोड के साथ 6000 मेगावाट की निकासी में सक्षम)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | मार्ग की लंबाई: 1200 किमी                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 4.     | <p>नागपुर एस/एस में 6x1500 एमवीए, 765/400 केवी आईसीटी एचवीडीसी स्विचयार्ड* के साथ सहायक अंतरसम्पर्क सहित 2x330 एमवीएआर (765 केवी) और 2x125 एमवीएआर, 420 केवी वस रिएक्टरों सहित की संस्थापना। 400 केवी बस को 400 केवी बस सेक्शनलाइज़र के 1 सेट के माध्यम से 2 सेक्शनों में संस्थापित किया जाएगा ताकि प्रत्येक सेक्शन सेक्शन 3x1500 एमवीए आईसीटीज़ लगाए जा सकें। वस सेक्शनलाइज़र सामान्य रूप से बंद रहेगा और ग्रिड की आवश्यकता के आधार पर खोला जा सकता है।</p> <p><b>नागपुर में भावी प्रावधान :</b></p> <p><b>निम्नलिखित के लिए स्थान :</b></p> <ul style="list-style-type: none"> <li>765/400 केवी, 1500 एमवीए आईसीटी-4 (400 केवी वस सेक्शन-II पर 1 एवं भविष्य 400 केवी बस सेक्शन-III पर 3)</li> <li>स्विचवेल लाइन रिएक्टरों सहित 765 केवी लाइन बे - 10</li> <li>बे सहित 765 केवी बस रिएक्टर: 2</li> <li>765 केवी सेक्शनलाइज़र बे: 1- सेट</li> </ul> | <ul style="list-style-type: none"> <li>765/400 केवी, 1500 एमवीए आईसीटी-6 (प्रत्येक 400 केवी अनुभाग पर 3) (एक स्पेयर यूनिट सहित 19 एकल चरण यूनिटें)</li> <li>765 केवी आईसीटी बे- 6</li> <li>400 केवी आईसीटी बे- 6 (प्रत्येक सेक्शन पर 3)</li> <li>330 एमवीएआर 765 केवी वस रिएक्टर-2</li> <li>125 एमवीएआर 420 केवी वस रिएक्टर-2 (प्रत्येक सेक्शन पर एक)</li> <li>765 केवी रिएक्टर बे- 2</li> <li>765 केवी लाइन बे- 4</li> <li>400 केवी रिएक्टर बे- 2 (प्रत्येक सेक्शन पर एक)</li> <li>400 केवी बस सेक्शनलाइज़र - 1 सेट</li> <li>110 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (लाइन/वस रिएक्टर के लिए स्पेयर यूनिट)-1</li> </ul> |



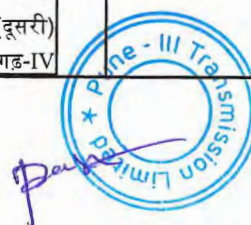
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>○ स्विचेबल लाइन रिक्टर सहित 400 केवी लाइन वे - 12</li> <li>○ 400 केवी बस सेक्शन लाइज़र- 1 सेट</li> <li>○ बेसहित 400/220 केवी आईसीटी - 9 (400 केवी बस सेक्शन-II पर 3 एवं भावी बस सेक्शन-III पर 6)</li> <li>○ बे सहित 400 केवी बस रिक्टर: 4 (400 केवी बस सेक्शन I एवं II पर 1 और भावी के 400 केवी बस सेक्शन-III पर 2)</li> <li>○ 220 केवी लाइन वे: 16</li> <li>○ 220 केवी सेक्शन लाइज़ेशन वे: 2 सेट</li> <li>○ 220 केवी वीसी एवं टीवीसी: 3</li> <li>○ 80 एमवीएआर, 765 केवी, 1-पीएच रिक्टर (लाइन रिक्टर के लिए स्पेयर यूनिट)-1</li> </ul> |                                                                                                                                                                                                                                                                                |  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | नागपुर में वर्धा - रायपुर 765 केवी एक डी/सी लाइन (2xडी/सी लाइनों में से) का लिलो                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | लीलो मार्ग की लंबाई: 30 किमी.                                                                                                                                                                                                                                                  |  |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | नागपुर-रायपुर 765 केवी डी/सी लाइन के प्रत्येक सीकेटी पर नागपुर छोर पर 240 एमवीएआर स्विचेबल लाइन रिक्टर की संस्थापना                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <ul style="list-style-type: none"> <li>• 240 एमवीएआर, 765 केवी स्विचेबल लाइन रिक्टर-2 (नागपुर छोर पर)</li> <li>• 765 केवी लाइन रिक्टर के लिए स्विचिंग उपस्कर - 2 (नागपुर छोर पर)</li> <li>• 80 एमवीएआर, 765 केवी, 1-पीएच रिक्टर (लाइन रिक्टर के लिए स्पेयर यूनिट)-1</li> </ul> |  |
| <p>* एचवीडीसी एवं एचवीएसी स्विचयार्ड के मध्य 400 केवी अंतरसम्पर्क (सभी सहायक उपस्कर/बस एक्सटेंशन आदि सहित) टीएसपी द्वारा कार्यान्वित किया जाएगा।</p> <p><b>टिप्पणी:</b></p> <ol style="list-style-type: none"> <li>2x1500 मेगावाट के खंभे केपीएस 2 के 400 केवी बस सेक्शन 1 से निकलेंगे और नागपुर के बस सेक्शन 1 पर समाप्त होंगे। इसी प्रकार, अन्य 2x1500 मेगावाट के खंभे केपीएस 2 के 400 केवी बस सेक्शन 2 से निकलेंगे और नागपुर के बस सेक्शन 2 पर समाप्त होंगे।</li> <li>एचवीडीसी प्रणाली को 100% पावर रिवर्सल क्षमता को ध्यान में रखते हुए डिजाइन किया जाएगा। रेटेड विद्युत पारेषण क्षमता के साथ-साथ रेटेड पारेषण वोल्टेज को एसी यार्ड के रेक्टिफायर छोर पर परिभाषित और गारंटी दी जाएगी।</li> <li>केपीएस 2 का टीएसपी उपरोक्त कार्यक्षेत्र के अनुसार एचवीडीसी प्रणाली की संस्थापना के लिए जगह उपलब्ध करेगा।</li> <li>ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी।</li> <li>ऊपर उल्लिखित कार्यान्वयन समय अवधि अस्थायी है। अंतिम समय अवधि अरएफपी दस्तावेज़ में इंगित की जाएगी।</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                |  |



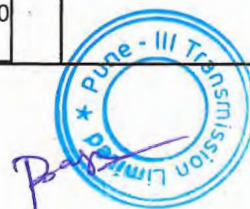
| 7.     | <p>चरण-V (8 गीगावाट) के अंतर्गत गुजरात के खावड़ा क्षेत्र में संभावित नवीकरणीय ऊर्जा क्षेत्र से विद्युत की निकासी के लिए पारेषण प्रणाली: भाग सी</p> <p>संभावित कार्यान्वयन समय अवधि: एसपीवी अंतरण से 48 महीने</p> <p><b>कार्यक्षेत्र:</b></p> <table> <tr> <th>क्र.सं</th><th>पारेषण स्कीम का कार्यक्षेत्र</th><th>क्षमता</th></tr> <tr> <td>1.</td><td>400 केवी एचवीएसी स्विचयार्ड* के साथ सहायक अंतरसम्पर्क के साथ केपीएस3 (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन सबस्टेशन के पास उपयुक्त स्थान पर 2500 मेगावाट, <math>\pm</math> 500 केवी केपीएस3 (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन (2x1250 मेगावाट) की संस्थापना</td><td>2500 मेगावाट, <math>\pm</math> 500 केवी केपीएस3 (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन</td></tr> <tr> <td>2.</td><td>साउथ ओलपैड एस/एस* के 400 केवी एचवीएसी स्विचयार्ड के साथ सहायक अंतरसम्पर्क के साथ 2500 मेगावाट, <math>\pm</math> 500 केवी साउथ ओलपैड (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन (2x1250 मेगावाट) की संस्थापना</td><td>2500 मेगावाट, <math>\pm</math> 500 केवी साउथ ओलपैड (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन</td></tr> <tr> <td>3.</td><td> <p>एचवीडीसी स्विचयार्ड* के साथ सहायक अंतरसम्पर्क के साथ 2x125 एमवीएआर, 420 केवी बस रिएक्टरों सहित केपीएस3 (एचवीडीसी) एस/एस की संस्थापना। 400 केवी बस को सामान्य रूप से खुला रखने के लिए 400 केवी बस सेक्शनलाइज़र के 1 सेट के माध्यम से 2 सेक्शनों में संस्थापित किया जाएगा।</p> <p>एचवीडीसी टर्मिनल को विशेष रूप से सहायक विद्युत की आपूर्ति के लिए 400/33 केवी, 2x50 एमवीए ट्रांसफार्मर।</p> <p>एमवीएआर</p> <p><b>केपीएस3 (एचवीडीसी) एस/एस पर भावी प्रावधान</b></p> <p><b>निम्नलिखित के लिए स्थान:</b></p> <ul style="list-style-type: none"> <li>400 केवी लाइन बे - 6 (प्रत्येक सेक्शन पर 3)</li> <li>400 केवी रिएक्टर बे- 2 (प्रत्येक सेक्शन पर एक)</li> </ul> </td><td> <ul style="list-style-type: none"> <li>400/33 केवी, 1x50 एमवीए आईसीटी बे सहित- 2</li> <li>125 एमवीएआर 420 केवी बस रिएक्टर-2 (प्रत्येक सेक्शन पर एक)</li> <li>400 केवी रिएक्टर बे- 2 (प्रत्येक सेक्शन पर एक)</li> <li>400 केवी बस सेक्शनलाइज़र- 1 सेट</li> </ul> </td></tr> <tr> <td>4.</td><td>केपीएस3 - केपीएस3 (एचवीडीसी) 400 केवी 2xडी/सी (क्वाड एसीएसआर/एएसी/एएल59 मूस समतुल्य) लाइन दोनों सबस्टेशनों पर लाइन बे सहित</td><td> <p>मार्ग की लंबाई- 2 किमी</p> <p>400 केवी जीआईएस लाइन बे - केपीएस3 पर 4 (प्रत्येक बस सेक्शन पर 2)</p> <p>400 केवी जीआईएस लाइन बे - केपीएस3 (एचवीडीसी) पर 4 (प्रत्येक बस सेक्शन पर 2)</p> </td></tr> <tr> <td>5.</td><td>केपीएस3 (एचवीडीसी) और साउथ ओलपैड (एचवीडीसी) के बीच <math>\pm</math>500 केवी एचवीडीसीबाइपोल लाइन (समर्पित मैटेलिक रिटर्न के साथ) (2500 मेगावाट निकालने में सक्षम)</td><td>मार्ग की लंबाई: 600 किमी</td></tr> </table> | क्र.सं                                                                                                                                                                                                                                                          | पारेषण स्कीम का कार्यक्षेत्र | क्षमता | 1. | 400 केवी एचवीएसी स्विचयार्ड* के साथ सहायक अंतरसम्पर्क के साथ केपीएस3 (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन सबस्टेशन के पास उपयुक्त स्थान पर 2500 मेगावाट, $\pm$ 500 केवी केपीएस3 (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन (2x1250 मेगावाट) की संस्थापना | 2500 मेगावाट, $\pm$ 500 केवी केपीएस3 (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन | 2. | साउथ ओलपैड एस/एस* के 400 केवी एचवीएसी स्विचयार्ड के साथ सहायक अंतरसम्पर्क के साथ 2500 मेगावाट, $\pm$ 500 केवी साउथ ओलपैड (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन (2x1250 मेगावाट) की संस्थापना | 2500 मेगावाट, $\pm$ 500 केवी साउथ ओलपैड (एचवीडीसी) [वीएससी] टर्मिनल स्टेशन | 3. | <p>एचवीडीसी स्विचयार्ड* के साथ सहायक अंतरसम्पर्क के साथ 2x125 एमवीएआर, 420 केवी बस रिएक्टरों सहित केपीएस3 (एचवीडीसी) एस/एस की संस्थापना। 400 केवी बस को सामान्य रूप से खुला रखने के लिए 400 केवी बस सेक्शनलाइज़र के 1 सेट के माध्यम से 2 सेक्शनों में संस्थापित किया जाएगा।</p> <p>एचवीडीसी टर्मिनल को विशेष रूप से सहायक विद्युत की आपूर्ति के लिए 400/33 केवी, 2x50 एमवीए ट्रांसफार्मर।</p> <p>एमवीएआर</p> <p><b>केपीएस3 (एचवीडीसी) एस/एस पर भावी प्रावधान</b></p> <p><b>निम्नलिखित के लिए स्थान:</b></p> <ul style="list-style-type: none"> <li>400 केवी लाइन बे - 6 (प्रत्येक सेक्शन पर 3)</li> <li>400 केवी रिएक्टर बे- 2 (प्रत्येक सेक्शन पर एक)</li> </ul> | <ul style="list-style-type: none"> <li>400/33 केवी, 1x50 एमवीए आईसीटी बे सहित- 2</li> <li>125 एमवीएआर 420 केवी बस रिएक्टर-2 (प्रत्येक सेक्शन पर एक)</li> <li>400 केवी रिएक्टर बे- 2 (प्रत्येक सेक्शन पर एक)</li> <li>400 केवी बस सेक्शनलाइज़र- 1 सेट</li> </ul> | 4. | केपीएस3 - केपीएस3 (एचवीडीसी) 400 केवी 2xडी/सी (क्वाड एसीएसआर/एएसी/एएल59 मूस समतुल्य) लाइन दोनों सबस्टेशनों पर लाइन बे सहित | <p>मार्ग की लंबाई- 2 किमी</p> <p>400 केवी जीआईएस लाइन बे - केपीएस3 पर 4 (प्रत्येक बस सेक्शन पर 2)</p> <p>400 केवी जीआईएस लाइन बे - केपीएस3 (एचवीडीसी) पर 4 (प्रत्येक बस सेक्शन पर 2)</p> | 5. | केपीएस3 (एचवीडीसी) और साउथ ओलपैड (एचवीडीसी) के बीच $\pm$ 500 केवी एचवीडीसीबाइपोल लाइन (समर्पित मैटेलिक रिटर्न के साथ) (2500 मेगावाट निकालने में सक्षम) | मार्ग की लंबाई: 600 किमी | पीएफसी लिमिटेड | कंसल्टिंग |
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| क्र.सं | पारेषण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | क्षमता                                                                                                                                                                                                                                                          |                              |        |    |                                                                                                                                                                                                                                                |                                                                         |    |                                                                                                                                                                                           |                                                                            |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                 |    |                                                                                                                            |                                                                                                                                                                                          |    |                                                                                                                                                        |                          |                |           |
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| 3.     | <p>एचवीडीसी स्विचयार्ड* के साथ सहायक अंतरसम्पर्क के साथ 2x125 एमवीएआर, 420 केवी बस रिएक्टरों सहित केपीएस3 (एचवीडीसी) एस/एस की संस्थापना। 400 केवी बस को सामान्य रूप से खुला रखने के लिए 400 केवी बस सेक्शनलाइज़र के 1 सेट के माध्यम से 2 सेक्शनों में संस्थापित किया जाएगा।</p> <p>एचवीडीसी टर्मिनल को विशेष रूप से सहायक विद्युत की आपूर्ति के लिए 400/33 केवी, 2x50 एमवीए ट्रांसफार्मर।</p> <p>एमवीएआर</p> <p><b>केपीएस3 (एचवीडीसी) एस/एस पर भावी प्रावधान</b></p> <p><b>निम्नलिखित के लिए स्थान:</b></p> <ul style="list-style-type: none"> <li>400 केवी लाइन बे - 6 (प्रत्येक सेक्शन पर 3)</li> <li>400 केवी रिएक्टर बे- 2 (प्रत्येक सेक्शन पर एक)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>400/33 केवी, 1x50 एमवीए आईसीटी बे सहित- 2</li> <li>125 एमवीएआर 420 केवी बस रिएक्टर-2 (प्रत्येक सेक्शन पर एक)</li> <li>400 केवी रिएक्टर बे- 2 (प्रत्येक सेक्शन पर एक)</li> <li>400 केवी बस सेक्शनलाइज़र- 1 सेट</li> </ul> |                              |        |    |                                                                                                                                                                                                                                                |                                                                         |    |                                                                                                                                                                                           |                                                                            |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                 |    |                                                                                                                            |                                                                                                                                                                                          |    |                                                                                                                                                        |                          |                |           |
| 4.     | केपीएस3 - केपीएस3 (एचवीडीसी) 400 केवी 2xडी/सी (क्वाड एसीएसआर/एएसी/एएल59 मूस समतुल्य) लाइन दोनों सबस्टेशनों पर लाइन बे सहित                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>मार्ग की लंबाई- 2 किमी</p> <p>400 केवी जीआईएस लाइन बे - केपीएस3 पर 4 (प्रत्येक बस सेक्शन पर 2)</p> <p>400 केवी जीआईएस लाइन बे - केपीएस3 (एचवीडीसी) पर 4 (प्रत्येक बस सेक्शन पर 2)</p>                                                                        |                              |        |    |                                                                                                                                                                                                                                                |                                                                         |    |                                                                                                                                                                                           |                                                                            |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                 |    |                                                                                                                            |                                                                                                                                                                                          |    |                                                                                                                                                        |                          |                |           |
| 5.     | केपीएस3 (एचवीडीसी) और साउथ ओलपैड (एचवीडीसी) के बीच $\pm$ 500 केवी एचवीडीसीबाइपोल लाइन (समर्पित मैटेलिक रिटर्न के साथ) (2500 मेगावाट निकालने में सक्षम)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | मार्ग की लंबाई: 600 किमी                                                                                                                                                                                                                                        |                              |        |    |                                                                                                                                                                                                                                                |                                                                         |    |                                                                                                                                                                                           |                                                                            |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                 |    |                                                                                                                            |                                                                                                                                                                                          |    |                                                                                                                                                        |                          |                |           |



|          | <p>*एचवीडीसी और एचवीएसी स्विचयार्ड के बीच 400 केवी अंतर्संपर्क (सभी संबंधित उपकरण/बस एक्सटेंशन आदि सहित) टीएसपी द्वारा कार्यान्वित किया जाएगा।</p> <p><b>टिप्पणी:</b></p> <ol style="list-style-type: none"> <li>1250 मेगावाट का पोल-1 केपीएस3 (एचवीडीसी) के 400 केवी बस सेक्शन 1 से निकलेगा और साउथ ओलपैड एस/एस पर समाप्त होगा। इसी तरह, 1250 मेगावाट का पोल-2 केपीएस3 (एचवीडीसी) के 400 केवी बस सेक्शन 2 से निकलेगा और साउथ ओलपैड एस/एस में समाप्त होगा।</li> <li>एचवीडीसी प्रणाली को 100% विद्युत रिवर्सल क्षमता के साथ-साथ ब्लैक स्टार्ट, स्वचालित ग्रिड बहाली और गतिशील प्रतिक्रियाशील पावर समर्थन क्षमता सहित डिजाइन किया जाएगा।</li> <li>रेटेड विद्युत पारेषण क्षमता के साथ-साथ रेटेड पारेषण वोल्टेज को एसी यार्ड के रेक्टिफायर छोर पर परिभाषित और गारंटी दी जाएगी।</li> <li>केपीएस3 का टीएसपी उपरोक्त कार्यक्षेत्र के अनुसार क्रमांक 4 कार्यक्षेत्र के लिए स्थान उपलब्ध कराएगा।</li> <li>साउथ ओलपैड एस/एस का टीएसपी उपरोक्त कार्यक्षेत्र के अनुसार क्रमांक 2 कार्यक्षेत्र के लिए जगह उपलब्ध कराएगा।</li> <li>ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी।</li> <li>ऊपर उल्लिखित कार्यान्वयन समय-अवधि अस्थायी है। अंतिम समय-सीमा आरएफपी दस्तावेज़ में उंगित की जाएगी।</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                     |                              |        |    |                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
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| 8.       | <p>राजस्थान आरईजेड फेज-IV (भाग-2: 5.5 गीगावाट) (जैसलमेर/बाड़मेर कॉम्प्लेक्स) से विद्युत की निकासी के लिए पारेषण प्रणाली: भाग ए</p> <p>संभावित कार्यान्वयन समय अवधि: एसपीवी अंतरण से 24 महीने</p> <p><b>कार्यक्षेत्र:</b></p> <table border="1" data-bbox="352 1279 1066 2004"> <thead> <tr> <th>क्रम सं.</th><th>पारेषण स्कीम का कार्यक्षेत्र</th><th>क्षमता</th></tr> </thead> <tbody> <tr> <td>1.</td><td>2x240 एमवीएआर (765 केवी) बस रिएक्टर और 2x125 एमवीएआर (420 केवी) बस रिएक्टर सहित 4x1500 एमवीए, 765/400 केवी और 5x500 एमवीए, 400/220 केवी फतेहगढ़-IV (सेक्शन -2) पूर्णिंग स्टेशन की संस्थापना</td><td> <ul style="list-style-type: none"> <li>765/400 केवी, 1500 एमवीए आईसीटी-4 (एक स्पेयर यूनिट सहित 13x500 एमवीए)</li> <li>765 केवी आईसीटी वे-4</li> <li>240 एमवीएआर, 765 केवी बस रिएक्टर- 2 (एक स्पेयर यूनिट सहित 7x80 एमवीएआर)</li> <li>765 केवी बस रिएक्टर वे-2</li> <li>765 केवी लाइन वे - 4 [फतेहगढ़- III के लीलो के लिए - व्यावर 765 केवी डी/सी (दूसरी) लाइन फतेहगढ़-IV</li> </ul> </td></tr> </tbody> </table> <p>[दिनांक 25.03.22 की 8वीं एनसीटी बैठक में फतेहगढ़-IV में पहले से ही अनुमोदित भावी अंतरिक्ष प्रावधानों का उपयोग वर्तमान स्कीम के लिए किया जाएगा]</p>                                                         | क्रम सं.                                                                                                                                                                                                                                                                                                                                                                            | पारेषण स्कीम का कार्यक्षेत्र | क्षमता | 1. | 2x240 एमवीएआर (765 केवी) बस रिएक्टर और 2x125 एमवीएआर (420 केवी) बस रिएक्टर सहित 4x1500 एमवीए, 765/400 केवी और 5x500 एमवीए, 400/220 केवी फतेहगढ़-IV (सेक्शन -2) पूर्णिंग स्टेशन की संस्थापना | <ul style="list-style-type: none"> <li>765/400 केवी, 1500 एमवीए आईसीटी-4 (एक स्पेयर यूनिट सहित 13x500 एमवीए)</li> <li>765 केवी आईसीटी वे-4</li> <li>240 एमवीएआर, 765 केवी बस रिएक्टर- 2 (एक स्पेयर यूनिट सहित 7x80 एमवीएआर)</li> <li>765 केवी बस रिएक्टर वे-2</li> <li>765 केवी लाइन वे - 4 [फतेहगढ़- III के लीलो के लिए - व्यावर 765 केवी डी/सी (दूसरी) लाइन फतेहगढ़-IV</li> </ul> | <p>आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड</p> |
| क्रम सं. | पारेषण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | क्षमता                                                                                                                                                                                                                                                                                                                                                                              |                              |        |    |                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |
| 1.       | 2x240 एमवीएआर (765 केवी) बस रिएक्टर और 2x125 एमवीएआर (420 केवी) बस रिएक्टर सहित 4x1500 एमवीए, 765/400 केवी और 5x500 एमवीए, 400/220 केवी फतेहगढ़-IV (सेक्शन -2) पूर्णिंग स्टेशन की संस्थापना                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>765/400 केवी, 1500 एमवीए आईसीटी-4 (एक स्पेयर यूनिट सहित 13x500 एमवीए)</li> <li>765 केवी आईसीटी वे-4</li> <li>240 एमवीएआर, 765 केवी बस रिएक्टर- 2 (एक स्पेयर यूनिट सहित 7x80 एमवीएआर)</li> <li>765 केवी बस रिएक्टर वे-2</li> <li>765 केवी लाइन वे - 4 [फतेहगढ़- III के लीलो के लिए - व्यावर 765 केवी डी/सी (दूसरी) लाइन फतेहगढ़-IV</li> </ul> |                              |        |    |                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                     |                                                    |



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|--|----|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  |    |                                                                                                                                                            | <p>(सेक्शन-2) पीएस पर]</p> <ul style="list-style-type: none"> <li>• 400/220 केवी, 500 एमवीए आईसीटी-5</li> <li>• 400 केवी आईसीटी वे-9</li> <li>• 400 केवी लाइन बे-2 [फतेहगढ़-IV (सेक-2) - भीनमाल (पीजी) डी/सी लाइन के लिए]</li> <li>• 125 एमवीएआर, 420 केवी बस रिएक्टर-2</li> <li>• 400 केवी बस रिएक्टर वे- 2</li> <li>• 400 केवी सेक्शनलाइजेशन बे: 1 सेट</li> <li>• 220 केवी आईसीटी वे- 5</li> <li>• 220 केवी लाइन बे: 6 (आरई कनेक्टिविटी के लिए)</li> <li>• 220 केवी वीसी (2) और 220 केवी टीवीसी (2)</li> <li>• 220 केवी सेक्शनलाइजेशन बे: 1 सेट</li> </ul> |  |
|  | 2. | प्रत्येक छोर पर प्रत्येक सीकेटी पर 50 एमवीएआर स्विचेबल लाइन रिएक्टर सहित फतेहगढ़-IV (सेक्शन-2) पीएस - भीनमाल (पीजी) 400 केवी डी/सी लाइन (ट्रिवन एचटीएलएस*) | <p>मार्ग की लंबाई: 200 किमी</p> <ul style="list-style-type: none"> <li>• फतेहगढ़-IV (सेक्शन-2) पीएस पर 50 एमवीएआर, 420 केवी स्विचेबल लाइन रिएक्टर-2</li> <li>• भीनमाल (पीजी) में 50 एमवीएआर, 420 केवी, स्विचेबल लाइन रिएक्टर-2</li> <li>• फतेहगढ़-IV (सेक्शन-2) पीएस पर 420 केवी, 50 एमवीएआर</li> </ul>                                                                                                                                                                                                                                                      |  |



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|                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     | स्विचेबल लाइन<br>रिएक्टरों के लिए<br>स्विचिंग उपकरण-2<br>• भीनमाल (पीजी) में<br>420 केवी, 50<br>एमवीएआर<br>स्विचेबल लाइन<br>रिएक्टरों के लिए<br>स्विचिंग उपकरण-2 |  |
| 3.                                                                                                                                                                                                                                                  | 765 केवी फतेहगढ़-IV -व्यावर के प्रत्येक सीकेटी डी/सी लाइन (लीलो के बाद वनी) के फतेहगढ़- IV पीएस छोर पर 330 एमवीएआर स्विचेबल लाइन रिएक्टर सहित फतेहगढ़- IV (सेक्शन-2) पीएस पर 765 केवी फतेहगढ़-III-व्यावर डी/सी लाइन के दोनों सीकेटी का लीलो | लीलो की लंबाई: 15 किमी<br>• फतेहगढ़-IV<br>(सेक्शन-2) पीएस<br>पर 330<br>एमवीएआर, 765<br>केवी स्विचेबल<br>लाइन रिएक्टर-2<br>• फतेहगढ़-IV<br>(सेक्शन-2) पीएस<br>पर 330<br>एमवीएआर, 765<br>केवी स्विचेबल<br>लाइन रिएक्टरों के<br>लिए स्विचिंग<br>उपकरण-2<br>• फतेहगढ़-IV<br>(सेक्शन-2) पीएस<br>छोर पर 110<br>एमवीएआर (765<br>केवी) स्पेयर<br>रिएक्टर एकल<br>चरण यूनिट-1 |                                                                                                                                                                  |  |
| 4.                                                                                                                                                                                                                                                  | भीनमाल (पीजी) में दो 400 केवी लाइन वे                                                                                                                                                                                                       | 400 केवी लाइन वे - 2                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                  |  |
| * नाममात्र वोल्टेज पर प्रत्येक सर्किट पर 2100 एमवीए की न्यूनतम क्षमता सहित।<br>टिप्पणी:                                                                                                                                                             |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |  |
| i. फतेहगढ़- IV (सेक्शन-1) में चरण-III भाग ए1 के अंतर्गत राजस्थान में आरईजेड से लगभग 2 गीगावाट आरई विद्युत की निकासी (20 गीगावाट) के लिए पारेषण प्रणाली बोली के अधीन है।                                                                             |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |  |
| ii. चरण-IV (भाग 2) के अंतर्गत पारेषण प्रणाली फतेहगढ़- IV (सेक्शन 2) में 4-5 गीगावाट आरई क्षमता की निकासी के लिए है, जो चरण-III स्कीम के अंतर्गत फतेहगढ़-IV में भावी प्रावधान (दिनांक 25.03.22 को 8वीं एनसीटी बैठक में अनुमोदित) का उपयोग कर रही है। |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |  |
| iii. ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी।                                                                                                                                           |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |  |
| iv. भीनमाल (पीजी) में 400 केवी लाइन वे में से 2 के लिए स्थान के साथ-साथ बिना किसी लागत प्रभाव के स्विचेबल लाइन रिएक्टरों के लिए पावरग्रिड स्थान प्रदान करेगा।                                                                                       |                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                  |  |

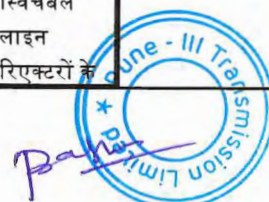




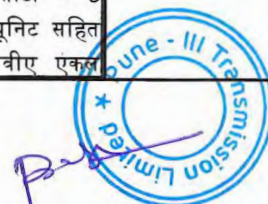
|          | <p>v. ए, बी, सी, डी, ई, एफ, एच1, एच2 पैकेज का कार्यान्वयन संरेखित किया जाएगा</p> <p>vi. स्विचेबल लाइन रिएक्टरों को एनजीआर वाईपास व्यवस्था सहित कार्यान्वित किया जाएगा।</p> <p>vii. ऊपर उल्लिखित कार्यान्वयन समय अवधि अस्थायी है। अंतिम समय अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी।</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |
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| 9.       | <p>राजस्थान आरईजेड फेज-IV (भाग-2: 5.5 गीगावाट) (जैसलमेर/बाड़मेर कॉम्प्लेक्स) से विद्युत की पीएफसी निकासी के लिए पारेषण प्रणाली: भाग बी</p> <p>संभावित कार्यान्वयन समय-सीमा: एसपीवी अंतरण से 24 महीने</p> <p>कार्यक्षेत्र:</p> <table border="1"> <thead> <tr> <th>क्र. सं.</th><th>पारेषण स्कीम का कार्यक्षेत्र</th><th>क्षमता</th></tr> </thead> <tbody> <tr> <td>1.</td><td> <p>सिरोही के पास उपयुक्त स्थान पर 2x240 एमवीएआर (765 केवी) और 2x125 एमवीएआर (420 केवी) बस रिएक्टर सहित 2x1500 एमवीए, 765/400 केवी सब-स्टेशन की स्थापना</p> <p><b>भावी प्रावधान:</b></p> <p>निम्नलिखित के लिए स्थान</p> <ul style="list-style-type: none"> <li>765/400 केवी आईसीटी सहित बे- 4</li> <li>765 केवी लाइन स्विचेबल लाइन रिएक्टरों सहित बे - 10</li> <li>बे सहित 765 केवी बस रिएक्टर : 1</li> <li>बे सहित 400 केवी लाइन स्विचेबल लाइन रिएक्टर-4</li> <li>400 केवी लाइन बे-4</li> <li>बे सहित 400 केवी बस रिएक्टर : 1</li> <li>400 केवी सेक्शनलाइजेशन बे: 2 सेट</li> <li>बे सहित 400/220 केवी आईसीटी - 6</li> <li>220 केवी लाइन बे -10</li> <li>220 केवी सेक्शनलाइजेशन बे : 2 सेट</li> <li>220 केवी बीसी (3) एवं टीवीसी (3)</li> <li>दो 400 केवी बे सहित एमएससी (4x125 एमवीएआर) और एमएसआर (2x125 एमवीएआर) सहित स्टेटकॉम (2x±300 एमवीएआर)</li> </ul> </td><td> <ul style="list-style-type: none"> <li>765/400 केवी, 1500 एमवीए आईसीटी-2 (एक स्पेयर यूनिट सहित 7x500 एमवीए)</li> <li>765 केवी आईसीटी बे -2</li> <li>240 एमवीएआर, 765 केवी बस रिएक्टर-2 (एक स्पेयर यूनिट सहित 7x80 एमवीएआर)</li> <li>765 केवी बस रिएक्टर बे-2</li> <li>765 केवी लाइन बे-2 [फतेहगढ़-IV (सेक्शन-2) पीएस तक डी/सी लाइन के लिए]</li> <li>400 केवी आईसीटी बे - 2</li> <li>400 केवी लाइन बे - 2 [चित्तौड़गढ़ (पीजी)]</li> </ul> </td></tr> </tbody> </table> | क्र. सं.                                                                                                                                                                                                                                                                                                                                                                                                                                 | पारेषण स्कीम का कार्यक्षेत्र | क्षमता | 1. | <p>सिरोही के पास उपयुक्त स्थान पर 2x240 एमवीएआर (765 केवी) और 2x125 एमवीएआर (420 केवी) बस रिएक्टर सहित 2x1500 एमवीए, 765/400 केवी सब-स्टेशन की स्थापना</p> <p><b>भावी प्रावधान:</b></p> <p>निम्नलिखित के लिए स्थान</p> <ul style="list-style-type: none"> <li>765/400 केवी आईसीटी सहित बे- 4</li> <li>765 केवी लाइन स्विचेबल लाइन रिएक्टरों सहित बे - 10</li> <li>बे सहित 765 केवी बस रिएक्टर : 1</li> <li>बे सहित 400 केवी लाइन स्विचेबल लाइन रिएक्टर-4</li> <li>400 केवी लाइन बे-4</li> <li>बे सहित 400 केवी बस रिएक्टर : 1</li> <li>400 केवी सेक्शनलाइजेशन बे: 2 सेट</li> <li>बे सहित 400/220 केवी आईसीटी - 6</li> <li>220 केवी लाइन बे -10</li> <li>220 केवी सेक्शनलाइजेशन बे : 2 सेट</li> <li>220 केवी बीसी (3) एवं टीवीसी (3)</li> <li>दो 400 केवी बे सहित एमएससी (4x125 एमवीएआर) और एमएसआर (2x125 एमवीएआर) सहित स्टेटकॉम (2x±300 एमवीएआर)</li> </ul> | <ul style="list-style-type: none"> <li>765/400 केवी, 1500 एमवीए आईसीटी-2 (एक स्पेयर यूनिट सहित 7x500 एमवीए)</li> <li>765 केवी आईसीटी बे -2</li> <li>240 एमवीएआर, 765 केवी बस रिएक्टर-2 (एक स्पेयर यूनिट सहित 7x80 एमवीएआर)</li> <li>765 केवी बस रिएक्टर बे-2</li> <li>765 केवी लाइन बे-2 [फतेहगढ़-IV (सेक्शन-2) पीएस तक डी/सी लाइन के लिए]</li> <li>400 केवी आईसीटी बे - 2</li> <li>400 केवी लाइन बे - 2 [चित्तौड़गढ़ (पीजी)]</li> </ul> | कंसल्टिंग लिमिटेड |
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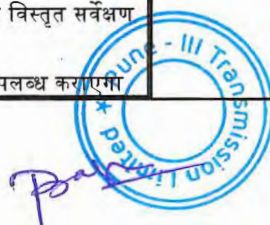
|    |                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|    |                                                                                                                                             | <p>एस/एस तक<br/>डी/सी लाइन<br/>के लिए]</p> <ul style="list-style-type: none"> <li>• 125<br/>एमवीएआर,<br/>420 केवी बस<br/>रिएक्टर -2</li> <li>• 400 केवी बस<br/>रिएक्टर बे-2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                   |
| 2. | प्रत्येक छोर पर प्रत्येक सर्किट के लिए 240 एमवीएआर स्विचेबल लाइन रिएक्टर सहित फतेहगढ़- IV (सेक्शन-2) पीएस - सिरोही पीएस 765 केवी डी/सी लाइन | <p>मार्ग की लंबाई -<br/>240 किमी</p> <ul style="list-style-type: none"> <li>• फतेहगढ़-IV<br/>(सेक्शन-2)<br/>पीएस पर<br/>765 केवी,<br/>240<br/>एमवीएआर<br/>स्विचेबल<br/>लाइन<br/>रिएक्टर - 2</li> <li>• सिरोही<br/>पीएस पर<br/>765 केवी,<br/>240<br/>एमवीएआर<br/>स्विचेबल<br/>लाइन<br/>रिएक्टर-2</li> <li>• फतेहगढ़-IV<br/>(सेक्शन-2)<br/>पीएस पर<br/>765 केवी,<br/>240<br/>एमवीएआर<br/>स्विचेबल<br/>लाइन<br/>रिएक्टरों के<br/>लिए स्विचिंग<br/>उपकरण-2</li> <li>• सिरोही<br/>पीएस पर<br/>765 केवी,<br/>240<br/>एमवीएआर<br/>स्विचेबल<br/>लाइन<br/>रिएक्टरों के</li> </ul> |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | लिए स्विचिंग उपकरण-2                                                                                                                                                                                                                   |                              |        |    |                                                                                                                                                                            |                                                                             |                                                 |
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| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | सिरोही पीएस छोर पर प्रत्येक सर्किट के लिए 80 एमवीएआर स्विचेबल लाइन रिएक्टर सहित सिरोही पीएस-चित्तौड़गढ़ (पीजी) 400 केवी डी/सी लाइन (क्वाड)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | मार्ग की लंबाई ~ 160 किमी<br><ul style="list-style-type: none"> <li>सिरोही पीएसपर 420 केवी, 80 एमवीएआर स्विचेबल लाइन रिएक्टर-2</li> <li>सिरोही पीएस पर 420 केवी, 80 एमवीएआर स्विचेबल लाइन रिएक्टरों के लिए स्विचिंग उपकरण-2</li> </ul> |                              |        |    |                                                                                                                                                                            |                                                                             |                                                 |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | चित्तौड़गढ़ (पीजी) एस/एस में दो 400 केवी लाइन बे                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | चित्तौड़गढ़ (पीजी) एस/एसपर 400 केवी लाइन बे-2                                                                                                                                                                                          |                              |        |    |                                                                                                                                                                            |                                                                             |                                                 |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | फतेहगढ़-IV (सेक्शन-2) पीएस पर दो 765 केवी लाइन बे                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | फतेहगढ़-IV (सेक्शन-2) पीएसपर 765 केवी लाइन बे-2                                                                                                                                                                                        |                              |        |    |                                                                                                                                                                            |                                                                             |                                                 |
| <b>टिप्पणी:</b><br>i. ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी।<br>ii. चित्तौड़गढ़ (पीजी) में 2 400 केवी लाइन बे के लिए पावरग्रिड स्थान उपलब्ध कराएगा।<br>iii. फतेहगढ़-IV एस/एस (सेक्शन-2) के विकासकर्ता फतेहगढ़-IV (सेक्शन-2) पीएस में दो 765 केवी लाइन बे के लिए स्थान के साथ-साथ स्विचेबल लाइन रिएक्टर के लिए स्थान उपलब्ध कराएंगे।<br>iv. ए, बी, सी, डी, ई, एफ, एच1, एच2 पैकेज का कार्यान्वयन संरेखित किया जाएगा।<br>v. स्विचेबल लाइन रिएक्टरों को एनजीआर वार्डपास व्यवस्था सहित कार्यान्वित किया जाएगा।<br>vi. ऊपर उल्लिखित कार्यान्वयन समय-अवधि अस्थायी है। अंतिम समय-अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी। |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                        |                              |        |    |                                                                                                                                                                            |                                                                             |                                                 |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>राजस्थान आरईजेड फेज-IV (भाग-2: 5.5 गीगावाट) (जैसलमेर/बाड़मेर कॉम्प्लेक्स) से विद्युत की निकासी के लिए पारेषण प्रणाली: भाग सी</b><br>संभावित कार्यान्वयन समय अवधि: एसपीवी अंतरण से 24 महीने<br><b>कार्यक्षेत्र:</b> <table border="1"> <thead> <tr> <th>क्रम सं.</th><th>पारेषण स्कीम का कार्यक्षेत्र</th><th>क्षमता</th></tr> </thead> <tbody> <tr> <td>1.</td><td>2x330 एमवीएआर (765 केवी) वस रिएक्टर एवं 2x125 एमवीएआर, 420 केवी वस रिएक्टर के साथ 3x1500 एमवीए, 765/400 केवी एवं 5x500 एमवीए, 400/220 केवी मंदसौर पुलिंग स्टेशन की स्थापना</td><td>765/400 केवी, 1500 एमवीए आईसीटी - 3 (एक स्पेयर यूनिट सहित) 10x500 एमवीए एकल</td></tr> </tbody> </table> | क्रम सं.                                                                                                                                                                                                                               | पारेषण स्कीम का कार्यक्षेत्र | क्षमता | 1. | 2x330 एमवीएआर (765 केवी) वस रिएक्टर एवं 2x125 एमवीएआर, 420 केवी वस रिएक्टर के साथ 3x1500 एमवीए, 765/400 केवी एवं 5x500 एमवीए, 400/220 केवी मंदसौर पुलिंग स्टेशन की स्थापना | 765/400 केवी, 1500 एमवीए आईसीटी - 3 (एक स्पेयर यूनिट सहित) 10x500 एमवीए एकल | आरईसी डेवलपमेंट एंड कंसल्टेंसी लिमिटेड पावर एंड |
| क्रम सं.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | पारेषण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | क्षमता                                                                                                                                                                                                                                 |                              |        |    |                                                                                                                                                                            |                                                                             |                                                 |
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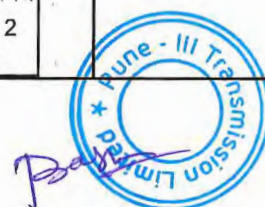


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|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                                                                                        | <p><b>भावी प्रावधान:</b><br/>निम्नलिखित के लिए स्थान:</p> <ul style="list-style-type: none"> <li>765/400 केवी आईसीटी सहित वे - 3</li> <li>वे सहित 765 केवी लाइन स्विचेबल लाइन रिएक्टर - 12</li> <li>वे सहित 765 केवी बस रिएक्टर: 2</li> <li>765 केवी सेक्शनलाइजर वे: 1 सेट</li> <li>स्विचेबल लाइन रिएक्टरों सहित 400 केवी लाइन वे - 12</li> <li>वे सहित 400/220 केवी आईसीटी - 5</li> <li>वे सहित 400 केवी बस रिएक्टर: 2</li> <li>400 केवी सेक्शनलाइजेशन वे : 1 सेट</li> <li>220 केवी लाइन वे: 11</li> <li>220 केवी सेक्शनलाइजेशन वे : 1 सेट</li> <li>220 केवी वीसी और टीवीसी: 1</li> <li>स्टेटकॉम (<math>\pm</math> 300 एमवीएआर) सहित एमएससी2 (2x125 एमवीएआर) और एमएसआर (1x125 एमवीएआर) सहित एक 400 केवी वे।</li> </ul> | <p>चरण यूनिटें)</p> <p>400/220 केवी, 500 एमवीए आईसीटी - 5 (220 केवी बस सेक्शन-1 पर 3 और 220 केवी बस सेक्शन-2 पर 2)</p> <p>765 केवी आईसीटी वे- 3</p> <p>400 केवी आईसीटी वे - 8</p> <p>330 एमवीएआर 765 केवी बस रिएक्टर-2 (एक स्पेयर यूनिट सहित 7x110 एमवीएआर एकल चरण यूनिटें)</p> <p>765 केवी बस रिएक्टर वे-</p> <p>765 केवी लाइन वे- 2 (इंदौर लाइन के लिए)</p> <p>80 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (स्पेयर यूनिट)-1</p> <p>125 एमवीएआर, 420 केवी बस रिएक्टर-2</p> <p>400 केवी रिएक्टर वे- 2</p> <p>220 केवी आईसीटी वे- 5</p> <p>220 केवी लाइन वे - 7 (बस सेक्शन-1 पर 4 और बस सेक्शन-2 पर 3)</p> <p>220 केवी बस सेक्शनलाइजर - 1 सेट</p> <p>220 केवी टीवीसी वे - 2</p> <p>220 केवी वीसी वे - 2</p> |  |
| 2.                                                                                                     | मंदसौर पीएस- इंदौर (पीजी) 765 केवी डी/सी लाइन                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | मार्ग की लंबाई ~ 200 किमी                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| 3.                                                                                                     | मंदसौर पीएस - इंदौर (पीजी) 765 केवी डी/सी लाइन के मंदसौर छोर पर प्रत्येक सीकेटी पर 1x330 एमवीएआर स्विचेबल लाइन रिएक्टर (एसएलआर)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>330 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर- 2</li> <li>765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण -2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |
| 4.                                                                                                     | मंदसौर पीएस - इंदौर (पीजी) 765 केवी डी/सी लाइन की समाप्ति के लिए इंदौर (पीजी) में 2 (दो) 765 केवी लाइन वे                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>765 केवी लाइन वे - 2 (इंदौर (पीजी) छोर के लिए)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>टिप्पणी:</b>                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |
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| ii. इंदौर सब-स्टेशन में दो 765 केवी लाइन वे के लिए पावरग्रिड स्थान उपलब्ध कराएंगे                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |



|         | <p>iii. ए, बी, सी, डी, ई, एफ, एच1, एच2 पैकेज का कार्यान्वयन संरेखित किया जाएगा</p> <p>iv. स्विचेबल लाइन रिएक्टरों को एनजीआर वाईपास व्यवस्था के साथ कार्यान्वित किया जाएगा</p> <p>v. ऊपर उल्लिखित कार्यान्वयन समय अवधि अस्थायी है। अंतिम समय अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी।</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                             |                              |        |    |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                           |                                                                          |                          |
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| 11.     | <p><b>राजस्थान आरईजेड चरण-IV (भाग-2: 5.5 गीगावॉट) (जैसलमेर/बाड़मेर कॉम्प्लेक्स) से विद्युत निकासी के लिए पारेषण प्रणाली: भाग डी</b></p> <p>संभावित कार्यान्वयन समय अवधि: एसपीवी अंतरण से 24 महीने</p> <p><b>कार्यक्षेत्र:</b></p> <table border="1"> <thead> <tr> <th>क्र.सं.</th><th>पारेषण स्कीम का कार्यक्षेत्र</th><th>क्षमता</th></tr> </thead> <tbody> <tr> <td>1.</td><td>व्यावर-मंदसौर पीएस 765 केवी डी/सी लाइन सहित प्रत्येक छोर पर प्रत्येक सर्किट के लिए 240 एमवीएआर स्विचेबल लाइन रिएक्टर</td><td> <p>मार्ग की लंबाई - 260 किमी</p> <ul style="list-style-type: none"> <li>व्यावर में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर- 2</li> <li>मंदसौर पीएस में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर- 2</li> <li>व्यावर में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण- 2</li> <li>मंदसौर पीएस में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण- 2</li> </ul> </td></tr> <tr> <td>2.</td><td>व्यावर सब-स्टेशन और मंदसौर सब-स्टेशन में प्रत्येक में दो 765 केवी लाइन वे</td><td>765 केवी लाइन वे - 4 (व्यावर सब-स्टेशन और मंदसौर पीएस पर प्रत्येक में 2)</td></tr> </tbody> </table> <p><b>टिप्पणी:</b></p> <ol style="list-style-type: none"> <li>ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी।</li> <li>मंदसौर पीएस के विकासकर्ता स्विचेबल लाइन रिएक्टर के लिए स्थान के साथ-साथ मंदसौर सब-स्टेशन में दो 765 केवी लाइन वे के लिए स्थान प्रदान करेंगे।</li> <li>व्यावर सब-स्टेशन के विकासकर्ता, स्विचेबल लाइन रिएक्टर के लिए स्थान के साथ-साथ व्यावर सब-स्टेशन में 2 765 केवी लाइन वे के लिए स्थान प्रदान करेंगे।</li> <li>ए, बी, सी, डी, ई, एफ, एच1, एच2 पैकेजों का कार्यान्वयन संरेखित किया जाएगा</li> <li>स्विचेबल लाइन रिएक्टरों को एनजीआर वाईपास व्यवस्था के साथ कार्यान्वित किया जाएगा</li> <li>ऊपर उल्लिखित कार्यान्वयन समय अवधि अस्थायी है। अंतिम समय अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी।</li> </ol> | क्र.सं.                                                                                                                                                                                                                                                                                                                                                                                                     | पारेषण स्कीम का कार्यक्षेत्र | क्षमता | 1. | व्यावर-मंदसौर पीएस 765 केवी डी/सी लाइन सहित प्रत्येक छोर पर प्रत्येक सर्किट के लिए 240 एमवीएआर स्विचेबल लाइन रिएक्टर | <p>मार्ग की लंबाई - 260 किमी</p> <ul style="list-style-type: none"> <li>व्यावर में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर- 2</li> <li>मंदसौर पीएस में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर- 2</li> <li>व्यावर में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण- 2</li> <li>मंदसौर पीएस में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण- 2</li> </ul> | 2. | व्यावर सब-स्टेशन और मंदसौर सब-स्टेशन में प्रत्येक में दो 765 केवी लाइन वे | 765 केवी लाइन वे - 4 (व्यावर सब-स्टेशन और मंदसौर पीएस पर प्रत्येक में 2) | पीएफसी कंसल्टिंग लिमिटेड |
| क्र.सं. | पारेषण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | क्षमता                                                                                                                                                                                                                                                                                                                                                                                                      |                              |        |    |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                           |                                                                          |                          |
| 1.      | व्यावर-मंदसौर पीएस 765 केवी डी/सी लाइन सहित प्रत्येक छोर पर प्रत्येक सर्किट के लिए 240 एमवीएआर स्विचेबल लाइन रिएक्टर                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>मार्ग की लंबाई - 260 किमी</p> <ul style="list-style-type: none"> <li>व्यावर में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर- 2</li> <li>मंदसौर पीएस में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर- 2</li> <li>व्यावर में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण- 2</li> <li>मंदसौर पीएस में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण- 2</li> </ul> |                              |        |    |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                           |                                                                          |                          |
| 2.      | व्यावर सब-स्टेशन और मंदसौर सब-स्टेशन में प्रत्येक में दो 765 केवी लाइन वे                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 765 केवी लाइन वे - 4 (व्यावर सब-स्टेशन और मंदसौर पीएस पर प्रत्येक में 2)                                                                                                                                                                                                                                                                                                                                    |                              |        |    |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                           |                                                                          |                          |
| 12.     | <p><b>राजस्थान आरईजेड चरण-IV (भाग-2: 5.5 गीगावॉट) (जैसलमेर/बाड़मेर कॉम्प्लेक्स) से विद्युत निकासी के लिए पारेषण प्रणाली: भाग ई</b></p> <p>संभावित कार्यान्वयन समय अवधि: एसपीवी अंतरण से 24 महीने</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <p>आरईसी यादर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड</p>                                                                                                                                                                                                                                                                     |                              |        |    |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                           |                                                                          |                          |

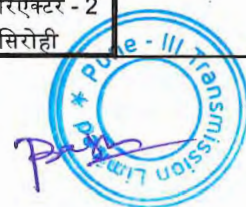
| कार्यक्षेत्र: |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                          |
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| क्र.सं.       | पारेषण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | क्षमता                                                                                                                                                                                                                                                                                                                                   |
| 1.            | <p>2x240 एमवीएआर (765 केवी) बस रिएक्टर के साथ ऋषभदेव (जिला उदयपुर) के पास उपयुक्त स्थान पर 765 केवी सबस्टेशन की स्थापना</p> <p><b>भविष्य के प्रावधान:</b></p> <p><b>निम्नलिखित के लिए स्थान</b></p> <ul style="list-style-type: none"> <li>वे सहित 765/400 केवी आईसीटी-स्पेयर यूनिट सहित 5</li> <li>स्विचेबल लाइन रिएक्टर सहित 765 केवी लाइन वे - 6</li> <li>वे सहित 765 केवी बस रिएक्टर: 1</li> <li>स्विचेबल लाइन रिएक्टर सहित 400 केवी लाइन वे - 4</li> <li>400 केवी लाइन वे -4</li> <li>वे सहित 400 केवी बस रिएक्टर: 3</li> <li>400 केवी सेक्शनलाइजेशन वे: 2 सेट</li> <li>वे सहित 400/220 केवी आईसीटी- 6</li> <li>220 केवी लाइन वे-10</li> <li>220 केवी सेक्शनलाइजेशन वे: 2 सेट</li> <li>220 केवी बीसी (3) तथा टीवीसी (3)</li> <li>स्टेटकॉम (2 x ±300 एमवीएआर) एमएससी (4x125 एमवीएआर) और एमएसआर (2x125 एमवीएआर) सहित दो 400 केवी वे</li> </ul> | <ul style="list-style-type: none"> <li>240 एमवीएआर, 765 केवी बस रिएक्टर - 2 (एक स्पेयर यूनिट सहित 7x80 एमवीएआर)</li> <li>765 केवी बस रिएक्टर वे-2</li> <li>765 केवी लाइन वे - 6 [765 केवी सिरोही पीएस- ऋषभदेव-मंदसौर डी/सी लाइन और ऋषभदेव सब-स्टेशन पर 765 केवी चित्तौड़गढ़-बनासकांता डी/सी लाइन के एक सर्किट के लीलो के लिए]</li> </ul> |
| 2.            | <p>सिरोही छोर पर प्रत्येक सर्किट के लिए 330 एमवीएआर स्विचेबल लाइन रिएक्टर सहित सिरोही पीएस- ऋषभदेव 765 केवी डी/सी लाइन</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>मार्ग की लंबाई - 170 किमी</p> <ul style="list-style-type: none"> <li>सिरोही पीएस पर 765 केवी, 330 एमवीएआर स्विचेबल लाइन रिएक्टर- 2</li> <li>सिरोही पीएस में 765 केवी, 330 एमवीएआर स्विचेबल लाइन रिएक्टरों के लिए स्विचिंग उपकरण -2</li> <li>सिरोही पीएस पर 110 एमवीएआर (765 केवी) स्पेयर रिएक्टर एकल चरण यूनिट-1</li> </ul>           |
| 3.            | <p>ऋषभदेव छोर पर प्रत्येक सर्किट के लिए 240 एमवीएआर स्विचेबल लाइन रिएक्टर सहित ऋषभदेव - मंदसौर पीएस 765 केवी डी/सी लाइन</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <p>मार्ग की लंबाई - 160 किमी</p> <ul style="list-style-type: none"> <li>ऋषभदेव में 765 केवी, 240 एमवीएआर स्विचेबल लाइन रिएक्टर - 2</li> <li>ऋषभदेव में 765</li> </ul>                                                                                                                                                                    |





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| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ऋषभदेव सब-स्टेशन (20 किमी) पर 765 केवी लीलो मार्ग की लंबाई~ 20<br>चित्तौड़गढ़-वनासकांठा डी/सी लाइन के एक सर्किट किमी<br>का लीलो                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                       |         |                              |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                       |                |           |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | सिरोही पीएस और मंदसौर सब-स्टेशन में प्रत्येक में<br>दो 765 केवी लाइन वे                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | • 765 केवी लाइन वे<br>- 4 (सिरोही पीएस<br>और मंदसौर पीएस<br>पर प्रत्येक में 2)                                                                                        |         |                              |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                       |                |           |
| <b>टिप्पणी:</b><br>i. ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी<br>ii. सिरोही पीएस के विकासकर्ता स्पेयर यूनिट सहित स्विचेबल लाइन रिएक्टरों के लिए स्थान के साथ सिरोही पीएस में दो 765 केवी लाइन वे के लिए स्थान प्रदान करेंगे।<br>iii. मंदसौर पीएस के विकासकर्ता मंदसौर पीएस में 2 765 केवी लाइन वे के लिए स्थान उपलब्ध कराएंगे।<br>iv. ए, बी, सी, डी, ई, एफ, एच1, एच2 पैकेजों का कार्यान्वयन संरेखित किया जाएगा<br>v. स्विचेबल लाइन रिएक्टरों को एनजीआर बाईपास व्यवस्था के साथ कार्यान्वित किया जाएगा।<br>vi. ऊपर उल्लिखित कार्यान्वयन समय अवधि अस्थायी है। अंतिम समय अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी। |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                       |         |                              |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                       |                |           |
| 13.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | राजस्थान आरईजेड चरण-IV (भाग-2: 5.5 गीगावाट) (जैसलमेर/बाड़मेर कॉम्प्लेक्स) से विद्युत निकासी के लिए पारेषण प्रणाली: भाग एफ (भाग एफ1 और एफ2 को जोड़कर)<br>संभावित कार्यान्वयन समय अवधि: एसपीवी अंतरण से 24 महीने<br>कार्यक्षेत्र: <table><tr><th>क्र.सं.</th><th>पारेषण स्कीम का कार्यक्षेत्र</th><th>क्षमता</th></tr><tr><td>1.</td><td>2x240 एमवीएआर (765 केवी) बस रिएक्टर और 2x125 एमवीएआर (420 केवी) बस रिएक्टर सहित 3x1500 एमवीए, 765/400 केवी और 2x500 एमवीए, 400/220 केवी बाड़मेर-1 पुलिंग स्टेशन की स्थापना<br/>भावी प्रावधान:<br/>निम्नलिखित के लिए स्थान<ul style="list-style-type: none"><li>वे सहित 765/400 केवी आईसीटी -3</li><li>स्विचेबल लाइन रिएक्टरों सहित 765 केवी लाइन वे -4</li><li>वे सहित 765 केवी बस रिएक्टर: 1</li><li>400 केवी लाइन वे -4</li><li>स्विचेबल लाइन रिएक्टर सहित 400 केवी लाइन वे -4</li><li>वे सहित 400/220 केवी आईसीटी -8</li><li>वे सहित 400 केवी बस रिएक्टर: 1</li><li>400 केवी सेक्शनलाइजेशन वे: 2 सेट</li></ul></td><td>• 765/400 केवी, 1500 एमवीए आईसीटी- 3 (एक स्पेयर यूनिट सहित 10x500 एमवीए)<br/>• 765 केवी आईसीटी वे-3<br/>• 240 एमवीएआर, 765 केवी बस रिएक्टर-2 (एक स्पेयर यूनिट सहित 7x80</td></tr></table> |                                                                                                                                                                       | क्र.सं. | पारेषण स्कीम का कार्यक्षेत्र | क्षमता | 1. | 2x240 एमवीएआर (765 केवी) बस रिएक्टर और 2x125 एमवीएआर (420 केवी) बस रिएक्टर सहित 3x1500 एमवीए, 765/400 केवी और 2x500 एमवीए, 400/220 केवी बाड़मेर-1 पुलिंग स्टेशन की स्थापना<br>भावी प्रावधान:<br>निम्नलिखित के लिए स्थान <ul style="list-style-type: none"><li>वे सहित 765/400 केवी आईसीटी -3</li><li>स्विचेबल लाइन रिएक्टरों सहित 765 केवी लाइन वे -4</li><li>वे सहित 765 केवी बस रिएक्टर: 1</li><li>400 केवी लाइन वे -4</li><li>स्विचेबल लाइन रिएक्टर सहित 400 केवी लाइन वे -4</li><li>वे सहित 400/220 केवी आईसीटी -8</li><li>वे सहित 400 केवी बस रिएक्टर: 1</li><li>400 केवी सेक्शनलाइजेशन वे: 2 सेट</li></ul> | • 765/400 केवी, 1500 एमवीए आईसीटी- 3 (एक स्पेयर यूनिट सहित 10x500 एमवीए)<br>• 765 केवी आईसीटी वे-3<br>• 240 एमवीएआर, 765 केवी बस रिएक्टर-2 (एक स्पेयर यूनिट सहित 7x80 | पीएफसी लिमिटेड | कंसल्टिंग |
| क्र.सं.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | पारेषण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | क्षमता                                                                                                                                                                |         |                              |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                       |                |           |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2x240 एमवीएआर (765 केवी) बस रिएक्टर और 2x125 एमवीएआर (420 केवी) बस रिएक्टर सहित 3x1500 एमवीए, 765/400 केवी और 2x500 एमवीए, 400/220 केवी बाड़मेर-1 पुलिंग स्टेशन की स्थापना<br>भावी प्रावधान:<br>निम्नलिखित के लिए स्थान <ul style="list-style-type: none"><li>वे सहित 765/400 केवी आईसीटी -3</li><li>स्विचेबल लाइन रिएक्टरों सहित 765 केवी लाइन वे -4</li><li>वे सहित 765 केवी बस रिएक्टर: 1</li><li>400 केवी लाइन वे -4</li><li>स्विचेबल लाइन रिएक्टर सहित 400 केवी लाइन वे -4</li><li>वे सहित 400/220 केवी आईसीटी -8</li><li>वे सहित 400 केवी बस रिएक्टर: 1</li><li>400 केवी सेक्शनलाइजेशन वे: 2 सेट</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | • 765/400 केवी, 1500 एमवीए आईसीटी- 3 (एक स्पेयर यूनिट सहित 10x500 एमवीए)<br>• 765 केवी आईसीटी वे-3<br>• 240 एमवीएआर, 765 केवी बस रिएक्टर-2 (एक स्पेयर यूनिट सहित 7x80 |         |                              |        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                       |                |           |

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|    | <ul style="list-style-type: none"> <li>○ आरई अनुप्रयोगों की कनेक्टिविटी के लिए 220 केवी लाइन वे-10</li> <li>○ 220 केवी सेक्शनलाइजेशन वे: 3 सेट</li> <li>○ 220 केवी वीसी (3) और टीवीसी (3)</li> <li>○ एमएससी (4x125 एमवीएआर) एवं एमएसआर (2x125 एमवीएआर) सहित स्टेटकॉम (2x±300 एमवीएआर) के साथ-साथ दो 400 केवी वे</li> </ul> | <ul style="list-style-type: none"> <li>एमवीएआर)</li> <li>• 765 केवी बस रिएक्टर वे-2</li> <li>• 765 केवी लाइन वे- 2 (सिरोही पीएस तक डी/सी लाइन के लिए)</li> <li>• 400/220 केवी, 500 एमवीए आईसीटी -2</li> <li>• 400 केवी आईसीटी वे- 5</li> <li>• 125 एमवीएआर, 420 केवी बस रिएक्टर-2</li> <li>• 400 केवी बस रिएक्टर वे- 2</li> <li>• 400 केवी लाइन वे - 2 [फतेहगढ़-III (सेक्शन-2) पीएस तक डी/सी लाइन के लिए]</li> <li>• 220 केवी आईसीटी वे- 2</li> <li>• 220 केवी लाइन वे: 4 (आरई कनेक्टिविटी के लिए)</li> <li>• 220 केवी वीसी (1) और टीवीसी (1)</li> </ul> |
| 2. | फतेहगढ़-III (सेक्शन-2) पीएस-वाइमेर-I पीएस 400 केवी डी/सी लाइन (क्राड)                                                                                                                                                                                                                                                      | मार्ग की लंबाई ~50 किमी                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 3. | प्रत्येक छोर पर प्रत्येक सर्किट के लिए 240 एमवीएआर स्विचेवल लाइन रिएक्टर सहित वाइमेर-I पीएस- सिरोही पीएस 765 केवी डी/सीलाइन                                                                                                                                                                                                | मार्ग की लंबाई ~200 किमी <ul style="list-style-type: none"> <li>• वाइमेर-I पीएसपर 765 केवी, 240 एमवीएआर स्विचेवल लाइन रिएक्टर - 2</li> <li>• सिरोही</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                           |



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                    | पीएस पर<br>765 केवी,<br>240<br>एमवीएआर<br>स्विचेवल<br>लाइन<br>रिएक्टर - 2<br>• वाइमेर-I<br>पीएस पर<br>765 केवी<br>240<br>एमवीएआर<br>स्विचेवल<br>लाइन<br>रिएक्टरों के<br>लिए स्विचिंग<br>उपकरण -2<br>• सिरौही<br>पीएस पर<br>765 केवी<br>240<br>एमवीएआर<br>स्विचेवल<br>लाइन<br>रिएक्टरों के<br>लिए स्विचिंग<br>उपकरण -2 |  |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | फतेहगढ़-III (सेक्शन-2) पीएस में 2,400 केवी लाइन वे | फतेहगढ़-III<br>(सेक्शन-2) पीएस में<br>400 केवी लाइन वे-<br>2                                                                                                                                                                                                                                                          |  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | सिरौही पीएस में दो 765 केवी लाइन वे                | सिरौही पीएस में<br>765 केवी लाइन वे -<br>2                                                                                                                                                                                                                                                                            |  |
| <b>टिप्पणी:</b> <ol style="list-style-type: none"> <li>ऊपर उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त की जाएगी</li> <li>सिरौही पीएस के विकासकर्ता स्विचेवल लाइन रिएक्टर के लिए स्थान के साथ-साथ सिरौही पीएस में दो 765 केवी लाइन वे के लिए स्थान प्रदान करेंगे।</li> <li>फतेहगढ़-III पीएस (सेक्शन-2) के विकासकर्ता, फतेहगढ़-III पीएस (सेक्शन-2) में दो 400 केवी लाइन वे के लिए स्थान उपलब्ध कराएंगे।</li> <li>स्विचेवल लाइन रिएक्टरों को एनजीआर वाईपास व्यवस्था के साथ कार्यान्वित किया जाएगा।</li> <li>ए, बी, सी, डी, ई, एफ, एच1, एच2 पैकेजों का कार्यान्वयन संरेखित किया जाएगा।</li> <li>ऊपर उल्लिखित कार्यान्वयन समय अवधि अस्थायी है। अंतिम समय अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी।</li> </ol> |                                                    |                                                                                                                                                                                                                                                                                                                       |  |



| 14.      | <p>राजस्थान आरईजेड चरण-IV से विद्युत की निकासी के लिए पारेषण प्रणाली (भाग-2 : 5.5 गीगावाट) (जैसलमेर/बाडमेर कॉम्प्लेक्स): भाग एच1</p> <p>संभावित कार्यान्वयन समय-सीमा: एसपीवी अंतरण से 24 माह</p> <p>कार्यक्षेत्र:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| क्र. सं. | पारेषण स्कीम का कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | क्षमता                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 1.       | <p>2x330 एमवीएआर 765 केवी बस रिएक्टर और 1x125 एमवीएआर, 420 केवी बस रिएक्टर के साथ 765/400 केवी (2x1500 एमवीए), 400/22 केवी (2x500 एमवीए) और 220/132 केवी (3x200 एमवीए) कुरावर एस/एस की स्थापना .</p> <p><b>भावी प्रावधान:</b></p> <p>निम्नलिखित के लिए स्थान</p> <ul style="list-style-type: none"> <li>765/400 केवी आईसीटी वे के साथ -4</li> <li>स्विचेबल लाइन रिएक्टरों वे सहित 765 केवी लाइन - 8</li> <li>वे सहित 765 केवी बस रिएक्टर: 2</li> <li>765 केवी सेक्शनलाइज़र वे: 1 - सेट</li> <li>स्विचेबल लाइन रिएक्टर सहित 400 केवी लाइन वे - 8</li> <li>वे सहित 400/220 केवी आईसीटी -6</li> <li>420 केवी बस रिएक्टर वे सहित: 3</li> <li>400 केवी सेक्शनलाइज़ेशन वे: 1- सेट</li> <li>220 केवी लाइन वे: 12</li> <li>220 केवी सेक्शनलाइज़ेशन वे: 1 सेट</li> <li>220 केवी वीसी और टीबीसी: 1</li> <li>220/132 केवी आईसीटी वे सहित: 5</li> <li>132 केवी लाइन वे: 16</li> <li>132 केवी सेक्शनलाइज़ेशन वे: 1 सेट</li> <li>132 केवी टीबीसी-1</li> <li>400 केवी वे के साथ एमएससी (2x125 एमवीएआर) एवं एमएसआर (1x125 एमवीएआर) सहित स्टेटकॉम (±300 एमवीएआर)</li> </ul> | <ul style="list-style-type: none"> <li>765/400 केवी, 1500 एमवीए आईसीटी - 2 (एक स्पेयर यूनिट सहित 500 एमवीए की 7 एकल यूनिटें)</li> <li>400/220 केवी, 500 एमवीए आईसीटी - 2</li> <li>220/132 केवी, 200 एमवीए आईसीटी - 3</li> <li>765 केवी आईसीटी वे - 2</li> <li>400 केवी आईसीटी वे - 4</li> <li>220 केवी आईसीटी वे - 5</li> <li>132 केवी आईसीटी वे - 3</li> <li>330 एमवीएआर 765 केवी बस रिएक्टर-2</li> <li>125 एमवीएआर 420 केवी बस रिएक्टर-1</li> <li>765 केवी रिएक्टर वे- 2</li> <li>765 केवी लाइन वे - 4</li> <li>400 केवी लाइन वे - 4</li> <li>400 केवी रिएक्टर वे - 1</li> <li>220 केवी वीसी- 1</li> <li>220 केवी टीबीसी - 1</li> <li>132 केवी टीबीसी - 1</li> <li>110 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (स्पेयर यूनिट)-1</li> <li>80 एमवीएआर, 765 केवी, 1-पीएच रिएक्टर (स्पेयर यूनिट)-1</li> </ul> |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                    |                                                                                                                                                                                                                                                      |
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| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | मंदसौर-कुरावर 765 केवी डी/सी लाइन                                                                                  | मार्ग की लंबाई: 235 किमी                                                                                                                                                                                                                             |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | मंदसौर-कुरावर 765 केवी डी/सी लाइन के दोनों छोर पर प्रत्येक सीकेटी पर 240 एमवीएआर स्विचेबल लाइन रिएक्टर             | <ul style="list-style-type: none"> <li>240 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर - 4 (मंदसौर छोर के लिए 2 और कुरावर छोर के लिए 2)</li> <li>765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण - 4 (मंदसौर छोर के लिए 2 और कुरावर छोर के लिए 2)</li> </ul> |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | मंदसौर-कुरावर 765 केवी डी/सी लाइन को समाप्त करने के लिए मंदसौर एस/एस में 765 केवी लाइन वे की 2                     | <ul style="list-style-type: none"> <li>765 केवी लाइन वे - 2 (मंदसौर छोर के लिए)</li> </ul>                                                                                                                                                           |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | कुरावर में इंदौर-भोपाल 765 केवी एस/सी लाइन का लीलो                                                                 | लीलो मार्ग की लंबाई: 15 किमी                                                                                                                                                                                                                         |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | कुरावर-आष्टा 400 केवी डी/सी (क्वाड एसीएसआर/एएएसी/एएल59 मूस समतुल्य) लाइन                                           | मार्ग की लंबाई: 65 किमी                                                                                                                                                                                                                              |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | कुरावर-आष्टा 400 केवी डी/सी लाइन के समापन के लिए आष्टा (एमपी) एस/एस पर 400 केवी लाइन वे की 2                       | 400 केवी लाइन वे - 2 [आष्टा (मध्य प्रदेश) छोर के लिए]                                                                                                                                                                                                |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | आष्टा पर इंदौर-इटारसी 400 केवी डी/सी लाइन के एक सर्किट का लीलो                                                     | लीलो मार्ग की लंबाई: 30 किमी                                                                                                                                                                                                                         |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | आष्टा में इंदौर-इटारसी 400 केवी डी/सी लाइन के एक सर्किट के लीलो के लिए आष्टा (एमपी) एस/एस पर 400 केवी लाइन वे की 2 | 400 केवी लाइन वे - 2 [आष्टा (एमपी) छोर के लिए]                                                                                                                                                                                                       |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | शुजालपुर - कुरावर 400 केवी डी/सी (क्वाड एसीएसआर/एएएसी/एएल59 मूस समतुल्य) लाइन                                      | मार्ग की लंबाई: 40 किमी                                                                                                                                                                                                                              |
| 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | शुजालपुर-कुरावर 400 केवी डी/सी लाइन को समाप्त करने के लिए शुजालपुर (पीजी) एस/एस पर 400 केवी लाइन वे की 2           | 400 केवी लाइन वे - 2 [शुजालपुर (पीजी) छोर के लिए]                                                                                                                                                                                                    |
| <b>टिप्पणी:</b> <ol style="list-style-type: none"> <li>उल्लिखित लाइन की लंबाई अनुमानित है क्योंकि सटीक लंबाई विस्तृत सर्वेक्षण के बाद प्राप्त होगी।</li> <li>एमपीपीटीसीएल ने आष्टा (एमपी) एस/एस में 400 केवी की 2 वे के लिए और 2 अतिरिक्त वे के लिए स्थान की उपलब्धता की पुष्टि की है, एमपीपीटीसीएल ने सूचित किया है कि निकटवर्ती भूमि निजी भूमि है और परियोजना विकासकर्ता द्वारा आवश्यकता के अनुसार अपनी लागत पर खरीदी जा सकती है।</li> <li>ए, बी, सी, डी, ई, एफ, एच1 और एच2 पैकेजों का कार्यान्वयन संरेखित किया जाएगा</li> <li>विषय संबंधी स्कीम का टीएसपी मंदसौर-कुरावर 765 केवी डी/सी लाइन पर इंटर-ट्रिपिंग स्कीम कार्यान्वित करेगी (मुख्य लाइन ब्रेकर के साथ मंदसौर/कुरावर छोर पर स्विचेबल लाइन रिएक्टर की ट्रिपिंग के लिए)।</li> <li>स्विचेबल लाइन रिएक्टरों को एनजीआर बाईपास व्यवस्था के साथ कार्यान्वित किया जाएगा</li> <li>मंदसौर एस/एस का विकासकर्ता मंदसौर-कुरावर 765 केवी डी/सी लाइन के लिए 765 केवी लाइन की 2 वे के लिए स्थान उपलब्ध कराएगा।</li> </ol> |                                                                                                                    |                                                                                                                                                                                                                                                      |



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|-------------------------------------------------------------------------------------------------------------------------------|
| VII. पावरग्रिड शुजालपुर-कुरावर 400 केवी डी/सी लाइन के लिए शुजालपुर एस/एस पर 400 केवी लाइन की 2 वे के लिए स्थान उपलब्ध कराएगा। |
| VIII. उल्लिखित कार्यान्वयन समय अवधि अस्थायी है। अंतिम समय अवधि आरएफपी दस्तावेज़ में इंगित की जाएगी।                           |

2. बोली प्रक्रिया समन्वयक की नियुक्ति इस संबंध में विद्युत मंत्रालय द्वारा जारी, समय-समय पर यथासंशोधित, दिशा-निर्देशों में निर्धारित शर्तों के अधीन है।

[फा. सं. 15/3/2018-ट्रांस-पार्ट (1)]

बिहारी लाल, अवर सचिव (पारेषण)

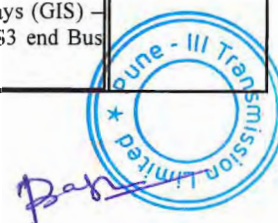
### MINISTRY OF POWER

### NOTIFICATION

New Delhi, the 29th August, 2023

**S.O. 3894(E).**—In exercise of the powers conferred by sub-para 3.2 of Para 3 of the Guidelines circulated under Section 63 of the Electricity Act, 2003 (no. 36 of 2003), the Central Government, on recommendations of 14<sup>th</sup> meeting of National Committee on Transmission, hereby appoints the following Bid-Process Coordinators (BPCs) for the Transmission Schemes, as shown against the name of the Transmission Schemes: -

| Sl. No. | Name & Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bid Process Coordinator                                                                                                                                                                                                                       |                                  |                        |    |                                                                                                                                         |                                                                                                                                                                                                   |    |                                                                                                                                                                                                         |                                                                                                                                                                                                                                               |    |                                            |                      |    |                                                                                                              |                                                                                                                |                                               |
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| 1.      | <p><b>Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part A</b></p> <p>Tentative Implementation timeframe: 24 months from SPV transfer and matching with Parts B, C &amp; D of Khavda Ph-IV (7 GW)</p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity/ Route length</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Creation of 765 kV bus section-II at KPS3 (GIS) along with 765 kV Bus Sectionaliser &amp; 1x330 MVAR, 765 kV Bus Reactors on Bus Section-II</td><td>Bus Section-II at KPS3<br/>765 kV Bus Sectionaliser – 1 set<br/>1500 MVA, 765/400 kV ICT – 3 Nos.<br/>330 MVAR, 765 kV Bus Reactor – 1 No.<br/>765 kV reactor bay – 1 No.<br/>765 kV ICT bays – 3 Nos.</td></tr> <tr> <td>2.</td><td>Creation of 400 kV bus Section-II at KPS3 (GIS) along with 400 kV Bus Sectionaliser &amp; 1x125 MVAR, 420 kV Bus Reactors on Bus Section-II and 3 Nos. 400 kV bays at Bus Section-II for RE interconnection</td><td>Bus Section-II at KPS3<br/>400 kV Bus Sectionaliser – 1 set<br/>125 MVAR, 420 kV Bus Reactors – 1 No.<br/>400 kV reactor bay – 1 No.<br/>400 kV ICT bays – 3 Nos. (for ICTs at Sl. 1 above)<br/>400 kV line bays – 3 Nos. (for RE interconnection)</td></tr> <tr> <td>3.</td><td>KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line</td><td>Route length: 185 km</td></tr> <tr> <td>4.</td><td>2 Nos. of 765 kV line bays each at KPS3 (GIS) &amp; Lakadia (AIS) for KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line</td><td> <ul style="list-style-type: none"> <li>765 kV line bays (GIS) – 2 Nos. (at KPS3 end Bus section-II)</li> </ul> </td></tr> </tbody> </table> | Sl. No.                                                                                                                                                                                                                                       | Scope of the Transmission Scheme | Capacity/ Route length | 1. | Creation of 765 kV bus section-II at KPS3 (GIS) along with 765 kV Bus Sectionaliser & 1x330 MVAR, 765 kV Bus Reactors on Bus Section-II | Bus Section-II at KPS3<br>765 kV Bus Sectionaliser – 1 set<br>1500 MVA, 765/400 kV ICT – 3 Nos.<br>330 MVAR, 765 kV Bus Reactor – 1 No.<br>765 kV reactor bay – 1 No.<br>765 kV ICT bays – 3 Nos. | 2. | Creation of 400 kV bus Section-II at KPS3 (GIS) along with 400 kV Bus Sectionaliser & 1x125 MVAR, 420 kV Bus Reactors on Bus Section-II and 3 Nos. 400 kV bays at Bus Section-II for RE interconnection | Bus Section-II at KPS3<br>400 kV Bus Sectionaliser – 1 set<br>125 MVAR, 420 kV Bus Reactors – 1 No.<br>400 kV reactor bay – 1 No.<br>400 kV ICT bays – 3 Nos. (for ICTs at Sl. 1 above)<br>400 kV line bays – 3 Nos. (for RE interconnection) | 3. | KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line | Route length: 185 km | 4. | 2 Nos. of 765 kV line bays each at KPS3 (GIS) & Lakadia (AIS) for KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line | <ul style="list-style-type: none"> <li>765 kV line bays (GIS) – 2 Nos. (at KPS3 end Bus section-II)</li> </ul> | REC Power Development and Consultancy Limited |
| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Capacity/ Route length                                                                                                                                                                                                                        |                                  |                        |    |                                                                                                                                         |                                                                                                                                                                                                   |    |                                                                                                                                                                                                         |                                                                                                                                                                                                                                               |    |                                            |                      |    |                                                                                                              |                                                                                                                |                                               |
| 1.      | Creation of 765 kV bus section-II at KPS3 (GIS) along with 765 kV Bus Sectionaliser & 1x330 MVAR, 765 kV Bus Reactors on Bus Section-II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bus Section-II at KPS3<br>765 kV Bus Sectionaliser – 1 set<br>1500 MVA, 765/400 kV ICT – 3 Nos.<br>330 MVAR, 765 kV Bus Reactor – 1 No.<br>765 kV reactor bay – 1 No.<br>765 kV ICT bays – 3 Nos.                                             |                                  |                        |    |                                                                                                                                         |                                                                                                                                                                                                   |    |                                                                                                                                                                                                         |                                                                                                                                                                                                                                               |    |                                            |                      |    |                                                                                                              |                                                                                                                |                                               |
| 2.      | Creation of 400 kV bus Section-II at KPS3 (GIS) along with 400 kV Bus Sectionaliser & 1x125 MVAR, 420 kV Bus Reactors on Bus Section-II and 3 Nos. 400 kV bays at Bus Section-II for RE interconnection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Bus Section-II at KPS3<br>400 kV Bus Sectionaliser – 1 set<br>125 MVAR, 420 kV Bus Reactors – 1 No.<br>400 kV reactor bay – 1 No.<br>400 kV ICT bays – 3 Nos. (for ICTs at Sl. 1 above)<br>400 kV line bays – 3 Nos. (for RE interconnection) |                                  |                        |    |                                                                                                                                         |                                                                                                                                                                                                   |    |                                                                                                                                                                                                         |                                                                                                                                                                                                                                               |    |                                            |                      |    |                                                                                                              |                                                                                                                |                                               |
| 3.      | KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Route length: 185 km                                                                                                                                                                                                                          |                                  |                        |    |                                                                                                                                         |                                                                                                                                                                                                   |    |                                                                                                                                                                                                         |                                                                                                                                                                                                                                               |    |                                            |                      |    |                                                                                                              |                                                                                                                |                                               |
| 4.      | 2 Nos. of 765 kV line bays each at KPS3 (GIS) & Lakadia (AIS) for KPS3 (GIS) – Lakadia (AIS) 765 kV D/C line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>765 kV line bays (GIS) – 2 Nos. (at KPS3 end Bus section-II)</li> </ul>                                                                                                                                |                                  |                        |    |                                                                                                                                         |                                                                                                                                                                                                   |    |                                                                                                                                                                                                         |                                                                                                                                                                                                                                               |    |                                            |                      |    |                                                                                                              |                                                                                                                |                                               |





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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                             | <ul style="list-style-type: none"> <li>765 kV line bays (AIS) – 2 Nos. (at Lakadia end)</li> </ul>                                                                                                                                  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ±300 MVAR STATCOM with 1x125 MVAR MSC, 2x125 MVAR MSR at KPS3 400 kV Bus section-II                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>±300 MVAR STATCOM (with 1x125 MVAR MSC, 2x125 MVAR MSR)</li> <li>400 kV bay – 1 No.</li> </ul>                                                                                               |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | KPS1 (GIS)– Bhuj PS 765 kV 2 <sup>nd</sup> D/C line                                                                                                                                                                                                                                         | <ul style="list-style-type: none"> <li>Route length: 110 km</li> </ul>                                                                                                                                                              |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2 Nos. of 765 kV line bays each at KPS1 (GIS) & Bhuj PS for KPS1 (GIS) – Bhuj PS 765 kV D/C line                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>765 kV line bays (GIS) – 2 Nos. (at KPS1 end Bus section-II)</li> <li>765 kV line bays (AIS) – 2 Nos. (at Bhuj end)</li> </ul>                                                               |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 330 MVAR switchable line reactors at KPS3 end of KPS3 (GIS) – Lakadia 765 kV D/C line (with NGR bypass arrangement)                                                                                                                                                                         | <ul style="list-style-type: none"> <li>330 MVAR, 765 kV switchable line reactor- 2 Nos.</li> <li>Switching equipment for 765 kV line reactor- 2 Nos.</li> <li>1x110 MVAR spare switchable reactor unit at KPS3 (GIS) end</li> </ul> |
| <b>Note:</b> <ol style="list-style-type: none"> <li>Bay(s) required for completion of diameter (GIS) in one-and-half breaker scheme, shall also be executed by the TSP.</li> <li>TSP of KPS3 shall provide space for work envisaged at Sl. 1, 2, 4, 5 &amp; 8.</li> <li>The TSP of the present scheme shall arrange for additional land for installation of STATCOM (with MSC/MSR) as specified at Sl. No. 5 at KPS3 and TSP of KPS3 shall provide space for 1 No. 400 kV bay for termination of STATCOM.</li> <li>TSP of KPS1 and Bhuj PS shall provide space for work envisaged at Sl. No. 7.</li> <li>The TSP of the present scheme shall arrange for additional land adjoining Lakadia S/s for creation of 2 Nos. 765 kV diameter consisting of 1 main bay &amp; 1 Tie bay (for each diameter) in one-and-half breaker AIS scheme, towards implementation of 2 Nos. 765 kV line bays at Lakadia S/s (at Sl. No. 4) associated with KPS3 – Lakadia 765 kV D/c line and the same shall be extendable in future for integration of 2<sup>nd</sup> main bay (future line with switchable line reactor) for diameter completion.</li> <li>The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.</li> <li>The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</li> </ol> |                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                     |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part B</b><br>Tentative Implementation timeframe: 24 months from SPV transfer and matching with Parts A, C & D of Khavda Ph-IV (7 GW)<br><b>Scope:</b> |                                                                                                                                                                                                                                     |

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| Sl. No. | Scope of the transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Capacity /km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | <p>Establishment of 2x1500 MVA, 765/400 kV &amp; 2x500 MVA, 400/220 kV GIS S/s at a suitable location South of Olpad (between Olpad and Ichhapore) with 2x330 MVAR, 765 kV &amp; 1x125 MVAR, 420 kV bus reactors</p> <p><b>Future Provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>•</li> <li>○ 765/400 kV ICT along with bays- 4 Nos.</li> <li>○ 765 kV line bays along with switchable line reactors – 8 Nos.</li> <li>○ 765 kV Bus Reactor along with bay: 2 Nos.</li> <li>○ 765 kV Sectionalizer bay: 1 - set</li> <li>○ 400 kV line bays along with switchable line reactor – 8 Nos.</li> <li>○ 400/220 kV ICT along with bays - 8 Nos.</li> <li>○ 420 kV Bus Reactor along with bay: 3 Nos.</li> <li>○ 400 kV Sectionalization bay: 1- set</li> <li>○ 220 kV line bays: 18 Nos.</li> <li>○ 220 kV Sectionalization bay: 1 set</li> <li>○ 220 kV BC: 1 Nos.</li> <li>○ Establishment of 2500 MW, <math>\pm</math> 500 kV South Olpad (HVDC) [VSC] terminal station (2x1250 MW)</li> </ul> | <p>765/400 kV, 1x1500 MVA ICT-2 Nos. (7x500 MVA single phase units including one spare unit)</p> <p>400/220 kV, 500 MVA ICT – 2 Nos.</p> <p>765 kV ICT bays- 2 Nos.</p> <p>400 kV ICT bays- 4 Nos.</p> <p>220 kV ICT bays- 2 Nos.</p> <p>220 kV BC bay – 1 No.</p> <p>330 MVAR, 765 kV bus reactor-2 Nos.</p> <p>125 MVAR, 420 kV bus reactor-1 No.</p> <p>765 kV reactor bay- 2 Nos.</p> <p>765 kV line bay- 4 Nos.</p> <p>400 kV reactor bay- 1 No.</p> <p>400 kV line bay- 4 Nos.</p> <p>110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1 No.</p> |
| 2.      | Vadodara (GIS) –South Olpad (GIS) 765 kV D/C line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Route length: 140 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3.      | 240 MVAR switchable line reactors on each ckt at Vadodara (GIS) end of Vadodara (GIS) –South Olpad (GIS) 765 kV D/C line (with NGR bypass arrangement)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <ul style="list-style-type: none"> <li>• 240 MVAR, 765 kV switchable line reactor- 2 Nos.</li> <li>• Switching equipment for 765 kV line reactor- 2 Nos.</li> <li>• 1x80 MVAR spare bus reactor available at Vadodara (GIS) to be used as spare:</li> </ul>                                                                                                                                                                                                                                                                                                            |



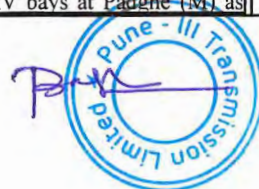
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2 Nos. of 765 kV line bays at Vadodara (GIS)for Vadodara(GIS) – South Olpad (GIS) 765 kV D/C line                                                                                                                                                                                                              | <ul style="list-style-type: none"><li>765 kV line bays (GIS) – 2 Nos. (at Vadodara end)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LILO of Gandhar – Hazira 400 kV D/c line at South Olpad (GIS) using twin HTLS conductor with minimum capacity of 1700 MVA per ckt at nominal voltage                                                                                                                                                           | LILO route length ~ 10 km.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ahmedabad – South Olpad (GIS) 765 kV D/c line                                                                                                                                                                                                                                                                  | Route length: 250 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 240 MVAR switchable line reactors on each ckt at Ahmedabad & South Olpad (GIS) end of Ahmedabad – South Olpad (GIS) 765 kV D/c line (with NGR bypass arrangement)                                                                                                                                              | <ul style="list-style-type: none"><li>240 MVAR, 765 kV switchable line reactor- 4 Nos. [2 for Ahmedabad end and 2 for South Olpad (GIS) end]</li><li>Switching equipment for 765 kV line reactor- 4 Nos. [2 for Ahmedabad end and 2 for South Olpad (GIS) end]</li><li>1x80 MVAR, 765 kV 1-ph spare line reactor – 1 No. (for South Olpad end)</li><li>1x80 MVAR, 765 kV 1-ph spare line reactor being implemented for Lakadia – Ahmedabad line (under Khavda Ph-II Part B scheme) at Ahmedabad S/s to be used as spare</li></ul> |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2 Nos. of 765 kV line bays at Ahmedabad S/sfor Ahmedabad – South Olpad (GIS) 765 kV D/c line                                                                                                                                                                                                                   | <ul style="list-style-type: none"><li>765 kV line bays (AIS) – 2 Nos. (at Ahmedabad end)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>Note:</p> <p>i. TSP of Vadodara S/s shall provide space for work envisaged at Sl. No. 3 &amp; 4 given above</p> <p>ii. TSP of Ahmedabad S/s shall provide space for work envisaged at Sl. No. 7 &amp; 8 given above</p> <p>iii. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.</p> <p>iv. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</p> |                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <p><b>Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part C</b></p> <p>Tentative Implementation timeframe: 24 months from SPV transfer and matching with Parts A, B &amp; D of Khavda Ph-IV (7 GW)</p> <p><b>Scope:</b></p> | <p><b>REC Power Development and Consultancy Limited</b></p>                                                                                                                                                                                                                                                                                                                                                                                   |



| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | <p>Establishment of 4x1500 MVA, 765/400 kV &amp; 2x500 MVA, 400/220 kV Boisar-II (GIS) S/s with 2x330 MVAR, 765 kV bus reactors and 2x125 MVAR, 420 kV bus reactors.</p> <p>(2x1500 MVA, 765/400 kV ICTs shall be on each 400 kV section and 2x500 MVA, 400/220 kV ICTs shall be on 400 kV Bus Section-II. 2x125 MVAR Bus reactors shall be such that one bus reactor is placed on each 400 kV bus section. 400 kV Bus Sectionalizer to be kept under normally OPEN condition)</p> <p><b>Future Provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>•</li> <li>○ 765/400 kV ICT along with bays- 2 No.</li> <li>○ 765 kV line bays along with switchable line reactors – 8 Nos.</li> <li>○ 765 kV Bus Reactor along with bay: 2 No.</li> <li>○ 765 kV Sectionalizer bay: 1 - set</li> <li>○ 400 kV line bays along with switchable line reactor – 8 Nos.</li> <li>○ 400/220 kV ICT along with bays - 6 Nos.</li> <li>○ 420 kV Bus Reactor along with bay: 2 No.</li> <li>○ 220 kV line bays: 12 Nos.</li> <li>○ 220 kV Sectionalization bay: 1 set</li> <li>○ 220 kV BC: 1 No.</li> </ul> | <p>765/400 kV, 1500 MVA ICT- 4 Nos. (13x500 MVA single phase units including one spare unit)</p> <p>400/220 kV, 500 MVA ICT – 2 Nos.</p> <p>765 kV ICT bays- 4 Nos.</p> <p>400 kV ICT bays- 6 Nos. (2 Nos. on Bus Section-I and 4 Nos. on Bus Section-II)</p> <p>400 kV Bus Sectionalizer-1 set</p> <p>220 kV ICT bays- 2 Nos.</p> <p>220 kV BC bay – 1 No.</p> <p>330 MVAR, 765 kV bus reactor-2 Nos.</p> <p>125 MVAR, 420 kV bus reactor-2 Nos.</p> <p>765 kV reactor bays- 2 Nos.</p> <p>765 kV line bays- 6 Nos.</p> <p>400 kV reactor bays- 2 Nos. (one on each bus section)</p> <p>400 kV line bay- 6 Nos. (4 Nos. on bus Section-I and 2 Nos. on bus Section-II)</p> <p>110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1 No.</p> |
| 2.      | South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Route length: 225 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 3.      | 2 Nos. of 765 kV line bays at South Olpad (GIS) for termination of South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 765 kV line bays (GIS) – 2 Nos. (for South Olpad end)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 4.      | 240 MVAR switchable line reactors on each ckt at South Olpad (GIS) & Boisar-II (GIS) end of South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line (with NGR bypass arrangement)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• 240 MVAR, 765 kV switchable line reactor- 4 [2 for Boisar-II (GIS) and 2 for South Olpad (GIS)]</li> <li>• Switching equipment for 765 kV line reactor- 4 (2 for Boisar-II (GIS) and 2 for South Olpad (GIS))</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



|                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                   |
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|                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                            | for South Olpad (GIS))                                                                                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>1x80 MVAR, 765 kV 1-ph spare line reactor – 1 No. (for Boisar-II end)</li> <li>1x80 MVAR, 765 kV 1-ph spare line reactor proposed for Ahmedabad – South Olpad (GIS) 765 kV line (under Khavda Ph-IV Part B scheme) at South Olpad (GIS) S/s to be used as spare</li> </ul> |
| 5.                                                                                                                                                                                                                                                                                                                                                                                           | LILO of Navsari (New) – Padghe (PG) 765 kV D/c line at Boisar-II                                                                                                                           | LILO route length: 25 km.                                                                                                                                                                                                                                                                                         |
| 6.                                                                                                                                                                                                                                                                                                                                                                                           | Boisar-II (Sec-II) – Velgaon (MH) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line                                                                                                   | Route length: 10 km.                                                                                                                                                                                                                                                                                              |
| 7.                                                                                                                                                                                                                                                                                                                                                                                           | 2 Nos. of 400 kV line bays at Velgaon (MH) for termination of Boisar-II – Velgaon (MH) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line                                              | 400 kV line bays (GIS) – 2 Nos. [for Velgaon (MH) end]                                                                                                                                                                                                                                                            |
| 8.                                                                                                                                                                                                                                                                                                                                                                                           | LILO of Babhaleswar – Padghe (M) 400 kV D/c line at Boisar-II (Sec-I) using twin HTLS conductor with a minimum capacity of 1700 MVA per ckt at nominal voltage                             | LILO route length: 65 km.                                                                                                                                                                                                                                                                                         |
| 9.                                                                                                                                                                                                                                                                                                                                                                                           | 80 MVAR switchable line reactors at Boisar-II end of Boisar-II – Babhaleswar 400 kV D/c line (with NGR bypass arrangement) formed after above LILO                                         | <ul style="list-style-type: none"> <li>80 MVAR, 420 kV switchable line reactor including switching equipment- 2 Nos.</li> </ul>                                                                                                                                                                                   |
| 10.                                                                                                                                                                                                                                                                                                                                                                                          | ±200 MVAR STATCOM with 2x125 MVAR MSC, 1x125 MVAR MSR at 400 kV bus section-I of Boisar-II and ±200 MVAR STATCOM with 2x125 MVAR MSC, 1x125 MVAR MSR at 400 kV bus section-II of Boisar-II | <ul style="list-style-type: none"> <li>±200 MVAR STATCOM (with MSC/MSR) on 400 kV Section-I</li> <li>400 kV bay – 1 No. on Section-I</li> <li>±200 MVAR STATCOM (with MSC/MSR) on 400 kV section-II</li> <li>400 kV bay – 1 No. on Section-II</li> </ul>                                                          |
| 11.                                                                                                                                                                                                                                                                                                                                                                                          | ± 300 MVAR STATCOM with 3x125 MVAR MSC, 1x125 MVAR MSR at 400 kV level of Navsari (New)(PG) S/s with 1 No. of 400 kV bay (GIS)                                                             | <ul style="list-style-type: none"> <li>±300 MVAR STATCOM (with MSC/MSR)</li> <li>400 kV bay – 1 No.</li> </ul>                                                                                                                                                                                                    |
| <p><b>Note:</b></p> <p>I. Bay(s) required for completion of diameter (GIS) in one-and-half breaker scheme shall also be executed by the TSP.</p> <p>II. MSETCL shall carry out reconductoring of the balance portion of Padghe (M) – Boisar-II 400 kV D/c line (i.e. from LILO point upto Padghe (M)) and shall also carry out corresponding upgradation of 400 kV bays at Padghe (M) as</p> |                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                   |



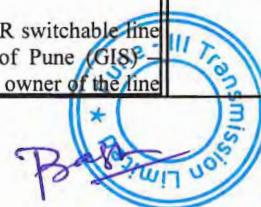


|         | <p>may be required in matching time-frame of the LILO line. MSETCL has confirmed the maximum capacity of the line which can be achieved after reconductoring considering clearances in existing towers of Babhaleswar – Padghe (M) 400 kV D/c line as 1700 MVA per ckt.</p> <p>III. MSETCL shall implement the LILO of both circuits of Boisar-II – Velgaon 220 kV D/c line at Boisar-II (ISTS) S/s along with 4 Nos. 220 kV GIS bays at Boisar-II in matching time-frame of Boisar-II (ISTS) S/s.</p> <p>IV. TSP of South Olpad (GIS) S/s shall provide space for work envisaged at Sl. No. 3 &amp; 4.</p> <p>V. MSETCL shall provide space for the work envisaged at Sl. No. 7 at Velgaon S/s.</p> <p>VI. TSP of the subject scheme shall implement Inter-tripping scheme on South Olpad (GIS) – Boisar-II (GIS) 765 kV D/c line (for tripping of the switchable line reactor at either end along with the main line breaker).</p> <p>VII. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.</p> <p>VIII. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |
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| 4.      | <p><b>Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part D</b></p> <p>Tentative Implementation timeframe : 24 months from SPV Transfer</p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity</th></tr> </thead> <tbody> <tr> <td>1.</td><td> <p>Establishment of 2x1500 MVA, 765/400 kV &amp; 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor.</p> <p><b>Future Provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>•</li> <li>○ 765/400 kV ICT along with bays- 4 No.</li> <li>○ 765 kV line bays along with switchable line reactors – 8 Nos.</li> <li>○ 765 kV Bus Reactor along with bay: 2 No.</li> <li>○ 765 kV Sectionalizer bay: 1 -set</li> <li>○ 400 kV line bays along with switchable line reactor – 12 Nos.</li> <li>○ 400/220 kV ICT along with bays -5 Nos.</li> <li>○ 400 kV Bus Reactor along with bay: 2 No.</li> <li>○ 400 kV Sectionalization</li> </ul> </td><td> <p>765/400 kV, 1500 MVA ICT-2 Nos. (7x500 MVA including one spare unit)</p> <p>400/220 kV, 500 MVA ICT – 3 Nos.</p> <p>765 kV ICT bays- 2 Nos.</p> <p>400 kV ICT bays- 5 Nos.</p> <p>220 kV ICT bays- 3 Nos.</p> <p>220 kV BC bay – 1 No.</p> <p>330 MVAR, 765 kV bus reactor-2 Nos.</p> <p>125 MVAR, 420 kV bus reactor-2 Nos.</p> <p>765 kV reactor bay- 2 Nos.</p> <p>765 kV line bay- 6 Nos.</p> <p>400 kV reactor bay- 2 Nos.</p> <p>400 kV line bay- 2 Nos.</p> <p>110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1 No.</p> </td></tr> </tbody> </table> | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Scope of the Transmission Scheme | Capacity | 1. | <p>Establishment of 2x1500 MVA, 765/400 kV &amp; 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor.</p> <p><b>Future Provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>•</li> <li>○ 765/400 kV ICT along with bays- 4 No.</li> <li>○ 765 kV line bays along with switchable line reactors – 8 Nos.</li> <li>○ 765 kV Bus Reactor along with bay: 2 No.</li> <li>○ 765 kV Sectionalizer bay: 1 -set</li> <li>○ 400 kV line bays along with switchable line reactor – 12 Nos.</li> <li>○ 400/220 kV ICT along with bays -5 Nos.</li> <li>○ 400 kV Bus Reactor along with bay: 2 No.</li> <li>○ 400 kV Sectionalization</li> </ul> | <p>765/400 kV, 1500 MVA ICT-2 Nos. (7x500 MVA including one spare unit)</p> <p>400/220 kV, 500 MVA ICT – 3 Nos.</p> <p>765 kV ICT bays- 2 Nos.</p> <p>400 kV ICT bays- 5 Nos.</p> <p>220 kV ICT bays- 3 Nos.</p> <p>220 kV BC bay – 1 No.</p> <p>330 MVAR, 765 kV bus reactor-2 Nos.</p> <p>125 MVAR, 420 kV bus reactor-2 Nos.</p> <p>765 kV reactor bay- 2 Nos.</p> <p>765 kV line bay- 6 Nos.</p> <p>400 kV reactor bay- 2 Nos.</p> <p>400 kV line bay- 2 Nos.</p> <p>110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1 No.</p> | PFC Consulting Limited |
| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |
| 1.      | <p>Establishment of 2x1500 MVA, 765/400 kV &amp; 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor.</p> <p><b>Future Provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>•</li> <li>○ 765/400 kV ICT along with bays- 4 No.</li> <li>○ 765 kV line bays along with switchable line reactors – 8 Nos.</li> <li>○ 765 kV Bus Reactor along with bay: 2 No.</li> <li>○ 765 kV Sectionalizer bay: 1 -set</li> <li>○ 400 kV line bays along with switchable line reactor – 12 Nos.</li> <li>○ 400/220 kV ICT along with bays -5 Nos.</li> <li>○ 400 kV Bus Reactor along with bay: 2 No.</li> <li>○ 400 kV Sectionalization</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <p>765/400 kV, 1500 MVA ICT-2 Nos. (7x500 MVA including one spare unit)</p> <p>400/220 kV, 500 MVA ICT – 3 Nos.</p> <p>765 kV ICT bays- 2 Nos.</p> <p>400 kV ICT bays- 5 Nos.</p> <p>220 kV ICT bays- 3 Nos.</p> <p>220 kV BC bay – 1 No.</p> <p>330 MVAR, 765 kV bus reactor-2 Nos.</p> <p>125 MVAR, 420 kV bus reactor-2 Nos.</p> <p>765 kV reactor bay- 2 Nos.</p> <p>765 kV line bay- 6 Nos.</p> <p>400 kV reactor bay- 2 Nos.</p> <p>400 kV line bay- 2 Nos.</p> <p>110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1 No.</p> |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |





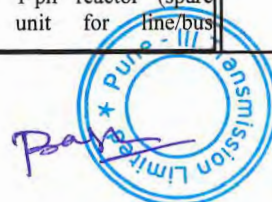
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|                                                                                                                                                                                                                                                                                                                                                                                | bay: 1 set<br>o 220 kV line bays: 12 Nos.<br>o 220 kV Sectionalization bay: 1 set<br>o 220 kV BC: 1 No.<br>o STATCOM ( $\pm 300$ MVAR) along with MSC (3x125 MVAR) & MSR (1x125 MVAR); alongwith 1 No. 400 kV bay: 1 No.<br>o 80 MVAR, 765 kV, 1-ph reactor (spare unit for line reactor)-1 No. |                                                                                                                                                                                                                                                       |
| 2.                                                                                                                                                                                                                                                                                                                                                                             | Boisar-II – Pune-III 765 kV D/c line                                                                                                                                                                                                                                                            | Route length: 200 km                                                                                                                                                                                                                                  |
| 3.                                                                                                                                                                                                                                                                                                                                                                             | 330 MVAR switchable line reactors at Pune-III end of Boisar-II – Pune-III 765 kV D/c line (with NGR bypass arrangement).                                                                                                                                                                        | <ul style="list-style-type: none"> <li>330 MVAR, 765 kV switchable line reactor- 2 Nos.</li> <li>Switching equipment for 765 kV line reactor- 2 Nos.</li> <li>1x110 MVAR spare bus reactor available at Pune-III (GIS) to be used as spare</li> </ul> |
| 4.                                                                                                                                                                                                                                                                                                                                                                             | 2 Nos. of 765 kV line bays at Boisar-II for termination of Boisar-II – Pune-III 765 kV D/c line                                                                                                                                                                                                 | <ul style="list-style-type: none"> <li>765 kV line bays (GIS) – 2 Nos. (for Boisar-II end)</li> </ul>                                                                                                                                                 |
| 5.                                                                                                                                                                                                                                                                                                                                                                             | LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III                                                                                                                                                                                                                                 | LILO route length: 10 km.                                                                                                                                                                                                                             |
| 6.                                                                                                                                                                                                                                                                                                                                                                             | 330 MVAR switchable line reactors at Pune-III end of Narendra (New) – Pune-III (GIS) 765 kV D/c line (with NGR bypass arrangement).                                                                                                                                                             | <ul style="list-style-type: none"> <li>330 MVAR, 765 kV switchable line reactor- 2.</li> <li>Switching equipment for 765 kV line reactor- 2</li> <li>1x110 MVAR spare bus reactor (1-ph) available at Pune-III (GIS) to be used as spare</li> </ul>   |
| 7.                                                                                                                                                                                                                                                                                                                                                                             | LILO of Hinjewadi-Koyna 400 kV S/c line at Pune-III (GIS) S/s                                                                                                                                                                                                                                   | LILO route length: 40 km.                                                                                                                                                                                                                             |
| 8.                                                                                                                                                                                                                                                                                                                                                                             | 80 MVAR, 420 kV switchable Line Reactors at Pune-III (GIS) end of Pune-III (GIS) – Koyna 400 kV S/c line formed after above LILO (with NGR bypass arrangement).                                                                                                                                 | <ul style="list-style-type: none"> <li>80 MVAR, 420 kV switchable line reactor along with switching equipment- 1 No.</li> </ul>                                                                                                                       |
| <b>Note:</b><br>i. Bay(s) required for completion of diameter (GIS) in one-and-half breaker scheme, shall also be executed by the TSP.<br>ii. Logic for Inter-tripping scheme for tripping of the 330 MVAR switchable line reactor along with main line breaker at Pune (GIS) end of Pune (GIS) – Narendra (New) 765 kV D/c line shall be implemented by the owner of the line |                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                       |



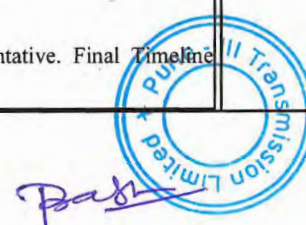
|         | <p>after LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III</p> <p>iii. MSETCL shall implement the following 220 kV lines along with 5 Nos. 220 kV GIS bays at Pune-III (GIS) S/s in matching time-frame of Pune-III S/s:</p> <p>a. LILO of both circuits of Jejuri-Phursungi 220 kV D/c line at Pune-III S/s with HTLS conductor (twin zebra equivalent) along with reconductoring of balance line section viz. LILO point to Phursungi and LILO points to Jejuri with HTLS conductor (twin zebra equivalent)</p> <p>b. Nanded City - Pune PG III 220 kV S/c line with HTLS conductor (twin zebra equivalent)</p> <p>iv. TSP of Boisar-II S/s shall provide space for work envisaged at Sl. No. 4.</p> <p>v. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.</p> <p>vi. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                            |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                            |                                               |
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| 5.      | <p><b>Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part E2</b></p> <p>Tentative Implementation timeframe : 21 months from SPV Transfer</p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Augmentation of transformation capacity at KPS2 (GIS) by 2x1500 MVA, 765/400 kV ICT on Bus section-I (5<sup>th</sup> &amp; 6<sup>th</sup>) &amp; 2x1500 MVA, 765/400 kV ICT on Bus section-II (7<sup>th</sup> &amp; 8<sup>th</sup>) &amp; 2 Nos. 400 kV bays at Bus Section-I for RE interconnection and 3 Nos. 400 kV bays at Bus Section-II for RE interconnection</td><td>1500 MVA, 765/400 kV ICT – 4 Nos.<br/><br/>765 kV bays – 4 Nos. [2 Nos. complete Dia for 2 ICTs (one on each bus section) and balance 2 ICTs to be terminated in spare bays (one on each section)]<br/><br/>400 kV bays– 10 Nos. [4 Nos. ICT bays (2 on each section) &amp; 5 Nos. line bays (2 on bus section-I &amp; 3 on bus section-II) along with 1 No. bay on Bus Section-II for Dia completion]</td></tr> </tbody> </table> <p><b>Note:</b></p> <p>i. The TSP shall implement two complete diameters (1 on Bus Section-I &amp; 1 on bus section-II) at 765 kV level of KPS2 (GIS) consisting of 2 Main Bays &amp; 1 Tie Bay required for completion of diameter (GIS) in one-and-half breaker scheme.</p> <p>ii. The TSP shall implement five complete diameters (2 on Bus Section-I &amp; 3 on Bus Section-II) at 400 kV level of KPS2 (GIS) consisting of 2 Main Bays &amp; 1 Tie bay required for completion of diameter (GIS) in one-and-half breaker scheme.</p> <p>iii. Further, TSP of KPS2 shall provide space to carry out the above augmentation work.</p> <p>iv. 2 Nos. 400 kV bays at Bus Section-I for RE interconnection and 1 No. 400 kV bays at Bus Section-II for RE interconnection are already under implementation at KPS2.</p> <p>v. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</p> | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                    | Scope of the Transmission Scheme | Capacity | 1. | Augmentation of transformation capacity at KPS2 (GIS) by 2x1500 MVA, 765/400 kV ICT on Bus section-I (5 <sup>th</sup> & 6 <sup>th</sup> ) & 2x1500 MVA, 765/400 kV ICT on Bus section-II (7 <sup>th</sup> & 8 <sup>th</sup> ) & 2 Nos. 400 kV bays at Bus Section-I for RE interconnection and 3 Nos. 400 kV bays at Bus Section-II for RE interconnection | 1500 MVA, 765/400 kV ICT – 4 Nos.<br><br>765 kV bays – 4 Nos. [2 Nos. complete Dia for 2 ICTs (one on each bus section) and balance 2 ICTs to be terminated in spare bays (one on each section)]<br><br>400 kV bays– 10 Nos. [4 Nos. ICT bays (2 on each section) & 5 Nos. line bays (2 on bus section-I & 3 on bus section-II) along with 1 No. bay on Bus Section-II for Dia completion] | REC Power Development and Consultancy Limited |
| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Capacity                                                                                                                                                                                                                                                                                                                                                                                   |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                            |                                               |
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| 6.      | <p><b>Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part A</b></p> <p>Tentative Implementation timeframe : 48 months for Bipole -1 and 54 months for Bipole-2 from SPV Transfer</p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. 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The 400 kV bus shall be established in 2 sections through 1 set of 400 kV bus sectionaliser so that 3x1500 MVA ICTs are placed in each section. The bus sectionaliser shall be normally closed and may be opened based on Grid requirement.</p> <p><b>Future Provisions at Nagpur:</b></p> <p><b>Space for:</b></p> <ul style="list-style-type: none"> <li>○</li> <li>○ 765/400 kV, 1500 MVA ICT- 4 (1 on 400 kV bus section-II &amp; 3 on future 400 kV bus section-III)</li> <li>○ 765 kV line bays along with switchable line reactors – 10 Nos.</li> <li>○ 765 kV Bus Reactor along with bay: 2 No.</li> <li>○ 765 kV Sectionaliser bay: 1-set</li> <li>○ 400 kV line bays along with switchable line</li> </ul> </td><td> <ul style="list-style-type: none"> <li>○</li> <li>○ 765/400 kV, 1500 MVA ICT-6 (3 on each 400 kV section) (19 single phase units including one spare unit)</li> <li>○ 765 kV ICT bays- 6 Nos.</li> <li>○ 400 kV ICT bays- 6 Nos. (3 on each section)</li> <li>○ 330 MVAR 765 kV bus reactor-2 Nos.</li> <li>○ 125 MVAR 420 kV bus reactor-2 Nos. (one on each section)</li> <li>○ 765 kV reactor bay- 2 Nos.</li> <li>○ 765 kV line bay- 4 Nos.</li> <li>○ 400 kV reactor bay- 2 Nos. (one on each section)</li> <li>○ 400 kV Bus sectionaliser - 1 Set</li> <li>○ 110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus)</li> </ul> </td></tr> </tbody> </table> | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Scope of the Transmission Scheme | Capacity | 1. | Establishment of 6000 MW, $\pm$ 800 kV KPS2 (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard*. | 6000 MW, $\pm$ 800 kV KPS2 (HVDC) [LCC] Terminal station | 2. | Establishment of 6000 MW, $\pm$ 800 kV Nagpur (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard*. | 6000 MW, $\pm$ 800 kV Nagpur (HVDC) [LCC] terminal station | 3. | $\pm$ 800 kV HVDC Bipole line (Hexa lapwing) between KPS2 (HVDC) and Nagpur (HVDC) (1200 km) (with Dedicated Metallic Return) (capable to evacuate 6000 MW with overload as specified) | Route length: 1200 km. | 4. | <p>Establishment of 6x1500 MVA, 765/400 kV ICTs at NagpurS/s along with 2x330 MVAR (765 kV) &amp; 2x125 MVAR, 420 kV bus reactors along with associated interconnections with HVDC Switchyard*. 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| 1.      | Establishment of 6000 MW, $\pm$ 800 kV KPS2 (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard*.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| 3.      | $\pm$ 800 kV HVDC Bipole line (Hexa lapwing) between KPS2 (HVDC) and Nagpur (HVDC) (1200 km) (with Dedicated Metallic Return) (capable to evacuate 6000 MW with overload as specified)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Route length: 1200 km.                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |
| 4.      | <p>Establishment of 6x1500 MVA, 765/400 kV ICTs at NagpurS/s along with 2x330 MVAR (765 kV) &amp; 2x125 MVAR, 420 kV bus reactors along with associated interconnections with HVDC Switchyard*. The 400 kV bus shall be established in 2 sections through 1 set of 400 kV bus sectionaliser so that 3x1500 MVA ICTs are placed in each section. The bus sectionaliser shall be normally closed and may be opened based on Grid requirement.</p> <p><b>Future Provisions at Nagpur:</b></p> <p><b>Space for:</b></p> <ul style="list-style-type: none"> <li>○</li> <li>○ 765/400 kV, 1500 MVA ICT- 4 (1 on 400 kV bus section-II &amp; 3 on future 400 kV bus section-III)</li> <li>○ 765 kV line bays along with switchable line reactors – 10 Nos.</li> <li>○ 765 kV Bus Reactor along with bay: 2 No.</li> <li>○ 765 kV Sectionaliser bay: 1-set</li> <li>○ 400 kV line bays along with switchable line</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>○</li> <li>○ 765/400 kV, 1500 MVA ICT-6 (3 on each 400 kV section) (19 single phase units including one spare unit)</li> <li>○ 765 kV ICT bays- 6 Nos.</li> <li>○ 400 kV ICT bays- 6 Nos. (3 on each section)</li> <li>○ 330 MVAR 765 kV bus reactor-2 Nos.</li> <li>○ 125 MVAR 420 kV bus reactor-2 Nos. (one on each section)</li> <li>○ 765 kV reactor bay- 2 Nos.</li> <li>○ 765 kV line bay- 4 Nos.</li> <li>○ 400 kV reactor bay- 2 Nos. (one on each section)</li> <li>○ 400 kV Bus sectionaliser - 1 Set</li> <li>○ 110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus)</li> </ul> |                                  |          |    |                                                                                                                                                            |                                                          |    |                                                                                                                                                              |                                                            |    |                                                                                                                                                                                        |                        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |



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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>reactor – 12 Nos.</p> <ul style="list-style-type: none"> <li>○ 400 kV Bus sectionaliser- 1 Set</li> <li>○ 400/220 kV ICT along with bays -9 Nos. (3 Nos. on 400 kV bus sections II &amp; 6 Nos. on future bus section-III)</li> <li>○ 400 kV Bus Reactor along with bay: 4 No. (1 each on 400 kV bus sections I &amp; II and 2 on future 400 kV bus section-III)</li> <li>○ 220 kV line bays: 16 Nos.</li> <li>○ 220 kV Sectionalization bay: 2 set</li> <li>○ 220 kV BC &amp; TBC: 3 Nos.</li> <li>○ 80 MVAR, 765 kV, 1-ph reactor (spare unit for line reactor)-1</li> </ul> | <p>reactor) - 1 No.</p>                                                                                                                                                                                                                                                           |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | LILO of Wardha – Raipur 765 kV one D/c line (out of 2x D/c lines) at Nagpur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LILO route length: 30 km.                                                                                                                                                                                                                                                         |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Installation of 240 MVAR switchable line reactor at Nagpur end on each ckt of Nagpur – Raipur 765 kV D/c line                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>• 240 MVAR, 765 kV switchable line reactors- 2 Nos. (at Nagpur end)</li> <li>• Switching equipment for 765 kV line reactor- 2 Nos. (at Nagpur end)</li> <li>• 80 MVAR, 765 kV, 1-ph reactor (spare unit for line reactor)-1 No.</li> </ul> |
| <p>* The 400 kV interconnections (along with all associated equipment/ bus extension, etc.) between HVDC &amp; HVAC switchyards shall be implemented by the TSP</p> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>i. The 2x1500 MW poles shall emanate from 400 kV bus section 1 of KPS2 and terminate at bus section 1 of Nagpur. Similarly, the other 2x1500 MW poles shall emanate from 400 kV bus section 2 of KPS2 and terminate at bus section 2 of Nagpur.</li> <li>ii. HVDC System will be designed considering 100% power reversal capability. The rated power transmission capacity as well as the rated transmission voltage shall be defined and guaranteed at the rectifier end of the AC yard.</li> <li>iii. TSP of KPS2 shall provide space for the establishment of the HVDC system as per above scope.</li> <li>iv. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.</li> <li>v. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                   |



| 7.      | <b>Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part C</b><br>Tentative Implementation timeframe : 48 months from SPV Transfer<br><b>Scope:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                     | <b>PFC Consulting Limited</b> |                                  |          |    |                                                                                                                                                                                                 |                                                          |    |                                                                                                                                                                                     |                                                                 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                     |    |                                                                                                                          |                                                                                                                                                                               |    |                                                                                                                                         |                      |  |
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|         | <table><tr><th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity</th></tr><tr><td>1.</td><td>Establishment of 2500 MW, <math>\pm</math> 500 kV KPS3 (HVDC) [VSC] terminal station (2x1250 MW) at a suitable location near KPS3 substation with associated interconnections with 400 kV HVAC Switchyard*</td><td>2500 MW, <math>\pm</math> 500 kV KPS3 (HVDC) [VSC] Terminal station</td></tr><tr><td>2.</td><td>Establishment of 2500 MW, <math>\pm</math> 500 kV South Olpad (HVDC) [VSC] terminal station (2x1250 MW) along with associated interconnections with 400 kV HVAC Switchyard of South Olpad S/s*</td><td>2500 MW, <math>\pm</math> 500 kV South Olpad (HVDC) [VSC] terminal station</td></tr><tr><td>3.</td><td>Establishment of KPS3 (HVDC) S/s along with 2x125 MVAR, 420 kV bus reactors along with associated interconnections with HVDC Switchyard*. The 400 kV bus shall be established in 2 sections through 1 set of 400 kV bus sectionaliser to be kept normally OPEN.<br/><br/>400/33 kV, 2x50 MVA transformers for exclusively supplying auxiliary power to HVDC terminal.<br/><br/>MVAR<br/><br/><b>Future Provisions at KPS3 (HVDC) S/s</b><br/><br/><b>Space for:</b><br/><br/><ul style="list-style-type: none"><li>○</li><li>○ 400 kV line bays – 6 Nos. (3 on each section)</li><li>○ 400 kV reactor bay- 2 Nos. (one on each section)</li></ul></td><td><ul style="list-style-type: none"><li>○</li><li>○ 400/33 kV, 1x50 MVA ICT along with bays- 2 Nos.</li><li>○ 125 MVAR 420 kV bus reactor-2 Nos. (one on each section)</li><li>○ 400 kV reactor bay- 2 Nos. (one on each section)</li><li>○ 400 kV Bus sectionaliser- 1 Set</li></ul></td></tr><tr><td>4.</td><td>KPS3 – KPS3 (HVDC) 400 kV 2xD/c (Quad ACSR/AAAC/AL59 moose equivalent) line along with the line bays at both substations</td><td>Route length- 2 km<br/><br/>400 kV GIS line bays - 4 Nos. at KPS3 (2 Nos. on each bus section)<br/><br/>400 kV GIS line bays - 4 Nos. at KPS3 (HVDC) (2 Nos. on each bus section)</td></tr><tr><td>5.</td><td><math>\pm</math>500 kV HVDC Bipole line between KPS3 (HVDC) and South Olpad (HVDC) (with Dedicated Metallic Return) (capable to evacuate 2500 MW)</td><td>Route length: 600 km</td></tr></table> | Sl. No.                                                                                                                                                                                                                                                                             |                               | Scope of the Transmission Scheme | Capacity | 1. | Establishment of 2500 MW, $\pm$ 500 kV KPS3 (HVDC) [VSC] terminal station (2x1250 MW) at a suitable location near KPS3 substation with associated interconnections with 400 kV HVAC Switchyard* | 2500 MW, $\pm$ 500 kV KPS3 (HVDC) [VSC] Terminal station | 2. | Establishment of 2500 MW, $\pm$ 500 kV South Olpad (HVDC) [VSC] terminal station (2x1250 MW) along with associated interconnections with 400 kV HVAC Switchyard of South Olpad S/s* | 2500 MW, $\pm$ 500 kV South Olpad (HVDC) [VSC] terminal station | 3. | Establishment of KPS3 (HVDC) S/s along with 2x125 MVAR, 420 kV bus reactors along with associated interconnections with HVDC Switchyard*. The 400 kV bus shall be established in 2 sections through 1 set of 400 kV bus sectionaliser to be kept normally OPEN.<br><br>400/33 kV, 2x50 MVA transformers for exclusively supplying auxiliary power to HVDC terminal.<br><br>MVAR<br><br><b>Future Provisions at KPS3 (HVDC) S/s</b><br><br><b>Space for:</b><br><br><ul style="list-style-type: none"><li>○</li><li>○ 400 kV line bays – 6 Nos. (3 on each section)</li><li>○ 400 kV reactor bay- 2 Nos. (one on each section)</li></ul> | <ul style="list-style-type: none"><li>○</li><li>○ 400/33 kV, 1x50 MVA ICT along with bays- 2 Nos.</li><li>○ 125 MVAR 420 kV bus reactor-2 Nos. (one on each section)</li><li>○ 400 kV reactor bay- 2 Nos. (one on each section)</li><li>○ 400 kV Bus sectionaliser- 1 Set</li></ul> | 4. | KPS3 – KPS3 (HVDC) 400 kV 2xD/c (Quad ACSR/AAAC/AL59 moose equivalent) line along with the line bays at both substations | Route length- 2 km<br><br>400 kV GIS line bays - 4 Nos. at KPS3 (2 Nos. on each bus section)<br><br>400 kV GIS line bays - 4 Nos. at KPS3 (HVDC) (2 Nos. on each bus section) | 5. | $\pm$ 500 kV HVDC Bipole line between KPS3 (HVDC) and South Olpad (HVDC) (with Dedicated Metallic Return) (capable to evacuate 2500 MW) | Route length: 600 km |  |
| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Capacity                                                                                                                                                                                                                                                                            |                               |                                  |          |    |                                                                                                                                                                                                 |                                                          |    |                                                                                                                                                                                     |                                                                 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                     |    |                                                                                                                          |                                                                                                                                                                               |    |                                                                                                                                         |                      |  |
| 1.      | Establishment of 2500 MW, $\pm$ 500 kV KPS3 (HVDC) [VSC] terminal station (2x1250 MW) at a suitable location near KPS3 substation with associated interconnections with 400 kV HVAC Switchyard*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2500 MW, $\pm$ 500 kV KPS3 (HVDC) [VSC] Terminal station                                                                                                                                                                                                                            |                               |                                  |          |    |                                                                                                                                                                                                 |                                                          |    |                                                                                                                                                                                     |                                                                 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                     |    |                                                                                                                          |                                                                                                                                                                               |    |                                                                                                                                         |                      |  |
| 2.      | Establishment of 2500 MW, $\pm$ 500 kV South Olpad (HVDC) [VSC] terminal station (2x1250 MW) along with associated interconnections with 400 kV HVAC Switchyard of South Olpad S/s*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2500 MW, $\pm$ 500 kV South Olpad (HVDC) [VSC] terminal station                                                                                                                                                                                                                     |                               |                                  |          |    |                                                                                                                                                                                                 |                                                          |    |                                                                                                                                                                                     |                                                                 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                     |    |                                                                                                                          |                                                                                                                                                                               |    |                                                                                                                                         |                      |  |
| 3.      | Establishment of KPS3 (HVDC) S/s along with 2x125 MVAR, 420 kV bus reactors along with associated interconnections with HVDC Switchyard*. The 400 kV bus shall be established in 2 sections through 1 set of 400 kV bus sectionaliser to be kept normally OPEN.<br><br>400/33 kV, 2x50 MVA transformers for exclusively supplying auxiliary power to HVDC terminal.<br><br>MVAR<br><br><b>Future Provisions at KPS3 (HVDC) S/s</b><br><br><b>Space for:</b><br><br><ul style="list-style-type: none"><li>○</li><li>○ 400 kV line bays – 6 Nos. (3 on each section)</li><li>○ 400 kV reactor bay- 2 Nos. (one on each section)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <ul style="list-style-type: none"><li>○</li><li>○ 400/33 kV, 1x50 MVA ICT along with bays- 2 Nos.</li><li>○ 125 MVAR 420 kV bus reactor-2 Nos. (one on each section)</li><li>○ 400 kV reactor bay- 2 Nos. (one on each section)</li><li>○ 400 kV Bus sectionaliser- 1 Set</li></ul> |                               |                                  |          |    |                                                                                                                                                                                                 |                                                          |    |                                                                                                                                                                                     |                                                                 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                     |    |                                                                                                                          |                                                                                                                                                                               |    |                                                                                                                                         |                      |  |
| 4.      | KPS3 – KPS3 (HVDC) 400 kV 2xD/c (Quad ACSR/AAAC/AL59 moose equivalent) line along with the line bays at both substations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Route length- 2 km<br><br>400 kV GIS line bays - 4 Nos. at KPS3 (2 Nos. on each bus section)<br><br>400 kV GIS line bays - 4 Nos. at KPS3 (HVDC) (2 Nos. on each bus section)                                                                                                       |                               |                                  |          |    |                                                                                                                                                                                                 |                                                          |    |                                                                                                                                                                                     |                                                                 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                     |    |                                                                                                                          |                                                                                                                                                                               |    |                                                                                                                                         |                      |  |
| 5.      | $\pm$ 500 kV HVDC Bipole line between KPS3 (HVDC) and South Olpad (HVDC) (with Dedicated Metallic Return) (capable to evacuate 2500 MW)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Route length: 600 km                                                                                                                                                                                                                                                                |                               |                                  |          |    |                                                                                                                                                                                                 |                                                          |    |                                                                                                                                                                                     |                                                                 |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                     |    |                                                                                                                          |                                                                                                                                                                               |    |                                                                                                                                         |                      |  |



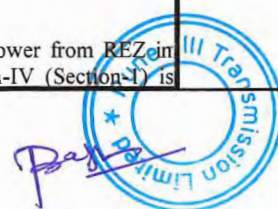


|         | <p>*The 400 kV interconnections (along with all associated equipment/ bus extension, etc.) between HVDC &amp; HVAC switchyards shall be implemented by the TSP</p> <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>The 1250 MW pole-1 shall emanate from 400 kV bus section 1 of KPS3 (HVDC) and terminate at South Olpad S/s. Similarly, the 1250 MW pole-2 shall emanate from 400 kV bus section 2 of KPS3 (HVDC) and terminate at South Olpad S/s.</li> <li>HVDC System will be designed with 100% power reversal capability as well as black start, automatic grid restoration &amp; dynamic reactive power support capability.</li> <li>The rated power transmission capacity as well as the rated transmission voltage shall be defined and guaranteed at the rectifier end of the AC yard.</li> <li>TSP of KPS3 shall provide space for scope at Sl. No. 4 as per the above scope</li> <li>TSP of South Olpad S/s shall provide space for scope at Sl. No. 2 as per above scope</li> <li>The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.</li> <li>The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document</li> </ol>                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |
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| 8.      | <p><b>Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2 : 5.5 GW) (Jaisalmer/Barmer Complex): Part A</b></p> <p>Tentative Implementation timeframe : 24 months from SPV Transfer</p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity</th></tr> </thead> <tbody> <tr> <td>1.</td><td> <p>Establishment of 4x1500 MVA, 765/400 kV &amp; 5x500 MVA, 400/220 kV Fatehgarh-IV (Section-2) Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <p>[Future space provisions already approved at Fatehgarh-IV in 8<sup>th</sup> NCT meeting dated 25.03.22 would be utilized for the present scheme]</p> </td><td> <ul style="list-style-type: none"> <li>765/400 kV, 1500 MVA ICT- 4 Nos. (13x500 MVA including one spare unit)</li> <li>765 kV ICT bays- 4 Nos.</li> <li>240 MVAR, 765 kV Bus Reactor- 2 Nos. (7x80 MVAR including one spare unit)</li> <li>765 kV Bus reactor bays-2 Nos.</li> <li>765 kV line bays - 4 Nos. [for LILO of Fatehgarh-III - Beawer 765 kV D/c (2<sup>nd</sup>) line at Fatehgarh-IV (Section-2) PS]</li> <li>400/220 kV, 500 MVA ICT -5 Nos.</li> <li>400 kV ICT bays- 9 Nos.</li> <li>400 kV line bays - 2 Nos. [For Fatehgarh-IV (Sec-2) - Bhinmal (PG) D/c line]</li> <li>125 MVAR, 420 kV Bus</li> </ul> </td></tr> </tbody> </table> | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Scope of the Transmission Scheme | Capacity | 1. | <p>Establishment of 4x1500 MVA, 765/400 kV &amp; 5x500 MVA, 400/220 kV Fatehgarh-IV (Section-2) Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <p>[Future space provisions already approved at Fatehgarh-IV in 8<sup>th</sup> NCT meeting dated 25.03.22 would be utilized for the present scheme]</p> | <ul style="list-style-type: none"> <li>765/400 kV, 1500 MVA ICT- 4 Nos. (13x500 MVA including one spare unit)</li> <li>765 kV ICT bays- 4 Nos.</li> <li>240 MVAR, 765 kV Bus Reactor- 2 Nos. (7x80 MVAR including one spare unit)</li> <li>765 kV Bus reactor bays-2 Nos.</li> <li>765 kV line bays - 4 Nos. [for LILO of Fatehgarh-III - Beawer 765 kV D/c (2<sup>nd</sup>) line at Fatehgarh-IV (Section-2) PS]</li> <li>400/220 kV, 500 MVA ICT -5 Nos.</li> <li>400 kV ICT bays- 9 Nos.</li> <li>400 kV line bays - 2 Nos. [For Fatehgarh-IV (Sec-2) - Bhinmal (PG) D/c line]</li> <li>125 MVAR, 420 kV Bus</li> </ul> | REC Power Development and Consultancy Limited |
| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |
| 1.      | <p>Establishment of 4x1500 MVA, 765/400 kV &amp; 5x500 MVA, 400/220 kV Fatehgarh-IV (Section-2) Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <p>[Future space provisions already approved at Fatehgarh-IV in 8<sup>th</sup> NCT meeting dated 25.03.22 would be utilized for the present scheme]</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>765/400 kV, 1500 MVA ICT- 4 Nos. (13x500 MVA including one spare unit)</li> <li>765 kV ICT bays- 4 Nos.</li> <li>240 MVAR, 765 kV Bus Reactor- 2 Nos. (7x80 MVAR including one spare unit)</li> <li>765 kV Bus reactor bays-2 Nos.</li> <li>765 kV line bays - 4 Nos. [for LILO of Fatehgarh-III - Beawer 765 kV D/c (2<sup>nd</sup>) line at Fatehgarh-IV (Section-2) PS]</li> <li>400/220 kV, 500 MVA ICT -5 Nos.</li> <li>400 kV ICT bays- 9 Nos.</li> <li>400 kV line bays - 2 Nos. [For Fatehgarh-IV (Sec-2) - Bhinmal (PG) D/c line]</li> <li>125 MVAR, 420 kV Bus</li> </ul> |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |





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|                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                     | <p>Reactor-2 Nos.</p> <ul style="list-style-type: none"> <li>• 400 kV Bus reactor bays- 2 Nos.</li> <li>• 400 kV Sectionalisation bay: 1 set</li> <li>• 220 kV ICT bays- 5 Nos.</li> <li>• 220 kV line bays: 6 Nos. (for RE connectivity)</li> <li>• 220 kV BC (2 Nos.) and 220 kV TBC (2 Nos.)</li> <li>• 220 kV Sectionalisation bay: 1 set</li> </ul>                                                                                                                |
| 2.                                                                                                                                                                                                                                                                | Fatehgarh-IV (Section-2) PS – Bhinmal (PG) 400 kV D/c line (Twin HTLS*) along with 50 MVAR switchable line reactor on each ckt at each end                                                                                          | <p>Route Length: 200 km</p> <ul style="list-style-type: none"> <li>• 50 MVAR, 420 kV switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos.</li> <li>• 50 MVAR, 420 kV, switchable line reactors at Bhinmal (PG) – 2 Nos.</li> <li>• Switching equipment for 420 kV, 50 MVAR switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos.</li> <li>• Switching equipment for 420 kV, 50 MVAR switchable line reactors at Bhinmal (PG) – 2 Nos.</li> </ul> |
| 3.                                                                                                                                                                                                                                                                | LILO of both ckts of 765 kV Fatehgarh-III- Beawar D/c line at Fatehgarh-IV (Section-2) PS along with 330 MVAR switchable line reactor at Fatehgarh-IV PS end of each ckt of 765 kV Fatehgarh-IV-Beawar D/c line (formed after LILO) | <p>LILO length: 15 km</p> <ul style="list-style-type: none"> <li>• 330 MVAR, 765 kV switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos.</li> <li>• Switching equipment for 330 MVAR, 765 kV switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos.</li> <li>• 110 MVAR (765 kV) spare reactor single phase unit at Fatehgarh-IV (Section-2) PS end – 1 No.</li> </ul>                                                                            |
| 4.                                                                                                                                                                                                                                                                | 2 Nos. of 400 kV line bays at Bhinmal (PG)                                                                                                                                                                                          | 400 kV line bays - 2 Nos.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <p><i>*with minimum capacity of 2100 MVA on each circuit at nominal voltage.</i></p> <p><b>Note:</b></p> <p>i. Transmission system for evacuation of about 2 GW RE power from REZ in Rajasthan (20 GW) under Phase-III Part A1 at Fatehgarh-IV (Section-1) is</p> |                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



|         | <p>under bidding.</p> <p>ii. Transmission system under Phase-IV (Part 2) is for evacuating 4-5 GW RE potential at Fatehgarh-IV (Section 2), which is utilising the future provision (approved in 8<sup>th</sup> NCT meeting dated 25.03.22) at Fatehgarh-IV approved under Phase-III scheme.</p> <p>iii. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey</p> <p>iv. POWERGRID to provide space for 2 Nos. of 400 kV line bays at Bhinmal (PG) along with the space for switchable line reactors without any cost implications.</p> <p>v. Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned</p> <p>vi. Switchable line reactors to be implemented with NGR bypass arrangement.</p> <p>vii. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |
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| 9.      | <p><b>Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2 : 5.5 GW) (Jaisalmer/Barmer Complex): Part B</b></p> <p>Tentative Implementation timeframe : 24 months from SPV Transfer</p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity</th></tr> </thead> <tbody> <tr> <td>1.</td><td> <p>Establishment of 2x1500 MVA, 765/400 kV Substation at suitable location near Sirohi along with 2x240 MVAR (765 kV) &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <p><b>Future provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>765/400 kV ICT along with bays- 4 Nos.</li> <li>765 kV line bays along with switchable line reactors – 10 Nos.</li> <li>765 kV Bus Reactor along with bay: 1 Nos.</li> <li>400 kV line bays along with switchable line reactor –4 Nos.</li> <li>400 kV line bays –4 Nos.</li> <li>400 kV Bus Reactor along with bay: 1 Nos.</li> <li>400 kV Sectionalization bay: 2 sets</li> <li>400/220 kV ICT along with bay - 6 Nos.</li> <li>220 kV line bays -10 Nos.</li> <li>220 kV Sectionalization bay: 2 sets</li> <li>220 kV BC (3 Nos.) &amp; TBC (3 Nos.)</li> <li>STATCOM (2x±300 MVAR) along with MSC (4x125 MVAR) &amp; MSR (2x125 MVAR) along with two number 400 kV bays.</li> </ul> </td><td> <ul style="list-style-type: none"> <li>765/400 kV, 1500 MVA ICT- 2 Nos. (7x500 MVA including one spare unit)</li> <li>765 kV ICT bays-2 Nos.</li> <li>240 MVAR, 765 kV Bus Reactor-2 Nos. (7x80 MVAR including one spare unit)</li> <li>765 kV Bus reactor bays-2 Nos.</li> <li>765 kV line bays- 2 Nos. [for D/c line to Fatehgarh-IV (Section-2) PS]</li> <li>400 kV ICT bays- 2 Nos.</li> <li>400 kV line bays - 2 Nos. [for D/c line to Chittorgarh (PG) S/s]</li> <li>125 MVAR, 420 kV Bus Reactor-2 Nos.</li> <li>400 kV Bus reactor bays- 2 Nos.</li> </ul> </td></tr> </tbody> </table> | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Scope of the Transmission Scheme | Capacity | 1. | <p>Establishment of 2x1500 MVA, 765/400 kV Substation at suitable location near Sirohi along with 2x240 MVAR (765 kV) &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <p><b>Future provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>765/400 kV ICT along with bays- 4 Nos.</li> <li>765 kV line bays along with switchable line reactors – 10 Nos.</li> <li>765 kV Bus Reactor along with bay: 1 Nos.</li> <li>400 kV line bays along with switchable line reactor –4 Nos.</li> <li>400 kV line bays –4 Nos.</li> <li>400 kV Bus Reactor along with bay: 1 Nos.</li> <li>400 kV Sectionalization bay: 2 sets</li> <li>400/220 kV ICT along with bay - 6 Nos.</li> <li>220 kV line bays -10 Nos.</li> <li>220 kV Sectionalization bay: 2 sets</li> <li>220 kV BC (3 Nos.) &amp; TBC (3 Nos.)</li> <li>STATCOM (2x±300 MVAR) along with MSC (4x125 MVAR) &amp; MSR (2x125 MVAR) along with two number 400 kV bays.</li> </ul> | <ul style="list-style-type: none"> <li>765/400 kV, 1500 MVA ICT- 2 Nos. (7x500 MVA including one spare unit)</li> <li>765 kV ICT bays-2 Nos.</li> <li>240 MVAR, 765 kV Bus Reactor-2 Nos. (7x80 MVAR including one spare unit)</li> <li>765 kV Bus reactor bays-2 Nos.</li> <li>765 kV line bays- 2 Nos. [for D/c line to Fatehgarh-IV (Section-2) PS]</li> <li>400 kV ICT bays- 2 Nos.</li> <li>400 kV line bays - 2 Nos. [for D/c line to Chittorgarh (PG) S/s]</li> <li>125 MVAR, 420 kV Bus Reactor-2 Nos.</li> <li>400 kV Bus reactor bays- 2 Nos.</li> </ul> | PFC Consulting Limited |
| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |
| 1.      | <p>Establishment of 2x1500 MVA, 765/400 kV Substation at suitable location near Sirohi along with 2x240 MVAR (765 kV) &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <p><b>Future provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>765/400 kV ICT along with bays- 4 Nos.</li> <li>765 kV line bays along with switchable line reactors – 10 Nos.</li> <li>765 kV Bus Reactor along with bay: 1 Nos.</li> <li>400 kV line bays along with switchable line reactor –4 Nos.</li> <li>400 kV line bays –4 Nos.</li> <li>400 kV Bus Reactor along with bay: 1 Nos.</li> <li>400 kV Sectionalization bay: 2 sets</li> <li>400/220 kV ICT along with bay - 6 Nos.</li> <li>220 kV line bays -10 Nos.</li> <li>220 kV Sectionalization bay: 2 sets</li> <li>220 kV BC (3 Nos.) &amp; TBC (3 Nos.)</li> <li>STATCOM (2x±300 MVAR) along with MSC (4x125 MVAR) &amp; MSR (2x125 MVAR) along with two number 400 kV bays.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>765/400 kV, 1500 MVA ICT- 2 Nos. (7x500 MVA including one spare unit)</li> <li>765 kV ICT bays-2 Nos.</li> <li>240 MVAR, 765 kV Bus Reactor-2 Nos. (7x80 MVAR including one spare unit)</li> <li>765 kV Bus reactor bays-2 Nos.</li> <li>765 kV line bays- 2 Nos. [for D/c line to Fatehgarh-IV (Section-2) PS]</li> <li>400 kV ICT bays- 2 Nos.</li> <li>400 kV line bays - 2 Nos. [for D/c line to Chittorgarh (PG) S/s]</li> <li>125 MVAR, 420 kV Bus Reactor-2 Nos.</li> <li>400 kV Bus reactor bays- 2 Nos.</li> </ul> |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |



|         | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Fatehgarh-IV (Section-2) PS – Sirohi PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end | Route Length – 240 km <ul style="list-style-type: none"><li>765 kV, 240 MVAR switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos.</li><li>765 kV, 240 MVAR switchable line reactors at Sirohi PS– 2 Nos.</li><li>Switching equipment for 765 kV, 240 MVAR switchable line reactors at Fatehgarh-IV (Section-2) PS – 2 Nos.</li><li>Switching equipment for 765 kV, 240 MVAR switchable line reactors at Sirohi PS – 2 Nos.</li></ul> |                                  |          |    |                                                                                                                                                    |                                                                                       |                                               |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------|----|----------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------|
|         | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sirohi PS-Chittorgarh (PG) 400 kV D/c line (Quad) along with 80 MVAR switchable line reactor for each circuit at Sirohi PS end   | Route Length ~160 km <ul style="list-style-type: none"><li>420 kV, 80 MVAR switchable line reactors at Sirohi PS – 2 Nos.</li><li>Switching equipment for 420 kV, 80 MVAR switchable line reactors at Sirohi PS – 2 Nos.</li></ul>                                                                                                                                                                                                               |                                  |          |    |                                                                                                                                                    |                                                                                       |                                               |
|         | 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 No. of 400 kV line bays at Chittorgarh (PG) S/s                                                                                | 400 kV line bays at Chittorgarh (PG) S/s - 2 Nos.                                                                                                                                                                                                                                                                                                                                                                                                |                                  |          |    |                                                                                                                                                    |                                                                                       |                                               |
|         | 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 No. of 765 kV line bays at Fatehgarh-IV (Section-2) PS                                                                         | 765 kV line bays at Fatehgarh-IV (Section-2) PS – 2 Nos.                                                                                                                                                                                                                                                                                                                                                                                         |                                  |          |    |                                                                                                                                                    |                                                                                       |                                               |
|         | <b>Note:</b> <ul style="list-style-type: none"><li>i. The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.</li><li>ii. POWERGRID to provide space for 2 Nos. of 400 kV line bays at Chittorgarh (PG).</li><li>iii. Developer of Fatehgarh-IV S/s (Section-2) to provide space for 2 Nos. of 765 kV line bays at Fatehgarh-IV(Section-2) PS along with the space for switchable line reactor</li><li>iv. Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned</li><li>v. Switchable line reactors to be implemented with NGR bypass arrangement.</li><li>vi. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</li></ul> |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |          |    |                                                                                                                                                    |                                                                                       |                                               |
| 10.     | <b>Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2 : 5.5 GW) (Jaisalmer/Barmer Complex): Part C</b><br><br>Tentative Implementation timeframe : 24 months from SPV Transfer<br><br><b>Scope:</b> <table><tr><th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity</th></tr><tr><td>1.</td><td>Establishment of 3x1500 MVA, 765/400 kV &amp; 5x500 MVA, 400/220 kV Mandasaur Pooling Station along with 2x330 MVAR (765 kV) Bus Reactors &amp; 2x125 MVAR</td><td>765/400 kV, 1500 MVA ICT – 3 Nos. (10x500 MVA single phase units including one spare)</td></tr></table>                                                                                                                                               |                                                                                                                                  | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                          | Scope of the Transmission Scheme | Capacity | 1. | Establishment of 3x1500 MVA, 765/400 kV & 5x500 MVA, 400/220 kV Mandasaur Pooling Station along with 2x330 MVAR (765 kV) Bus Reactors & 2x125 MVAR | 765/400 kV, 1500 MVA ICT – 3 Nos. (10x500 MVA single phase units including one spare) | REC Power Development and Consultancy Limited |
| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Capacity                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |          |    |                                                                                                                                                    |                                                                                       |                                               |
| 1.      | Establishment of 3x1500 MVA, 765/400 kV & 5x500 MVA, 400/220 kV Mandasaur Pooling Station along with 2x330 MVAR (765 kV) Bus Reactors & 2x125 MVAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 765/400 kV, 1500 MVA ICT – 3 Nos. (10x500 MVA single phase units including one spare)                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |          |    |                                                                                                                                                    |                                                                                       |                                               |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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|     | <p>420 kV Bus Reactor</p> <p><b>Future Provisions:</b></p> <p>Space for:</p> <ul style="list-style-type: none"> <li>765/400 kV ICT along with bays- 3 No.</li> <li>765 kV line bays along with switchable line reactors – 12 Nos.</li> <li>765 kV Bus Reactor along with bay: 2 No.</li> <li>765 kV Sectionalizer bay: 1 -set</li> <li>400 kV line bays along with switchable line reactor – 12 Nos.</li> <li>400/220 kV ICT along with bays - 5 Nos.</li> <li>400 kV Bus Reactor along with bay: 2 No.</li> <li>400 kV Sectionalization bay: 1- set</li> <li>220 kV line bays: 11 Nos.</li> <li>220 kV Sectionalization bay: 1 set</li> <li>220 kV BC and TBC: 1 Nos.</li> <li>STATCOM (<math>\pm</math> 300 MVAR) along with MSC (2x125 MVAR) &amp; MSR (1x125 MVAR) along with one 400 kV bay.</li> </ul> | <p>unit)</p> <p>400/220 kV, 500 MVA ICT – 5 Nos. (3 Nos. on 220 kV bus section-1 &amp; 2 Nos. on 220 kV bus section-2)</p> <p>765 kV ICT bays – 3 Nos.</p> <p>400 kV ICT bays – 8 Nos.</p> <p>330 MVAR 765 kV bus reactor- 2 Nos. (7x110 MVAR single phase units including one spare unit)</p> <p>765 kV bus reactor bay- 2 Nos.</p> <p>765 kV line bay- 2 Nos. (for Indore line)</p> <p>80 MVAR, 765 kV, 1-ph reactor (spare unit)-1 No.</p> <p>125 MVAR, 420 kV bus reactor- 2 Nos.</p> <p>400 kV reactor bay- 2 Nos.</p> <p>220 kV ICT bays – 5 Nos.</p> <p>220 kV line bays – 7 Nos. (4 Nos. on bus section-1 and 3 Nos. on bus section-2)</p> <p>220 kV Bus Sectionalizer – 1 set</p> <p>220 kV TBC bay – 2 Nos.</p> <p>220 kV BC bay – 2 Nos.</p> |
| 2.  | Mandsaur PS – Indore(PG) 765 kV D/c Line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Route Length ~ 200 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3.  | 1x330 MVAR switchable line reactor (SLR) on each ckt at Mandsaur end of Mandsaur PS – Indore (PG) 765 kV D/c Line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>330 MVAR, 765 kV switchable line reactor- 2 Nos.</li> <li>Switching equipment for 765 kV line reactor- 2 Nos.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 4.  | 2 Nos. of 765 kV line bays at Indore (PG) for termination of Mandsaur PS – Indore (PG) 765 kV D/c Line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>765 kV line bays – 2 Nos. (for Indore (PG) end)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|     | <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>The line lengths mentioned above are approximate as the exact length shall be obtained after detailed survey</li> <li>POWERGRID to provide space for 2 Nos. of 765 kV line bays at Indore S/s</li> <li>Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned</li> <li>Switchable line reactors to be implemented with NGR bypass arrangement</li> <li>The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</li> </ol>                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 11. | <p><b>Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2 : PFC 5.5 GW) (Jaisalmer/Barmer Complex): Part D</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |



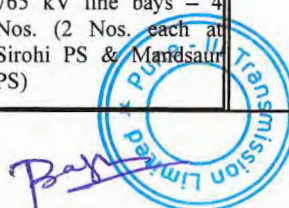
| Tentative Implementation timeframe : 24 months from SPV Transfer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                                  |          |    |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                |
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| <b>Scope:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                                  |          |    |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                |
| Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Capacity                                                                                                                                                                                                                                                                                                                                                                                                         |         |                                  |          |    |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Beawar- Mandsaur PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Route Length – 260 km <ul style="list-style-type: none"> <li>765 kV, 240 MVAR switchable line reactors at Beawar – 2 Nos.</li> <li>765 kV, 240 MVAR switchable line reactors at Mandsaur PS – 2 Nos.</li> <li>Switching equipment for 765 kV, 240 MVAR switchable line reactors at Beawar – 2 Nos.</li> <li>Switching equipment for 765 kV, 240 MVAR switchable line reactors at Mandsaur PS – 2 Nos.</li> </ul> |         |                                  |          |    |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2 No. of 765 kV line bays each at Beawar S/s & Mandsaur S/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 765 kV line bays - 4 Nos. (2 Nos. each at Beawar S/s and Mandsaur PS)                                                                                                                                                                                                                                                                                                                                            |         |                                  |          |    |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                |
| <b>Note:</b> <ol style="list-style-type: none"> <li>The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey</li> <li>Developer of Mandsaur PS to provide space for 2 Nos. of 765 kV line bays at Mandsaur S/s along with the space for switchable line reactor.</li> <li>Developer of Beawar S/s to provide space for 2 Nos. of 765 kV line bays at Beawar S/s along with the space for switchable line reactor.</li> <li>Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned</li> <li>Switchable line reactors to be implemented with NGR bypass arrangement</li> <li>The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</li> </ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                                  |          |    |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                |
| 12.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2 : 5.5 GW) (Jaisalmer/Barmer Complex): Part E</b><br>Tentative Implementation timeframe : 24 months from SPV Transfer<br><b>Scope:</b> <table> <tr> <th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity</th></tr> <tr> <td>1.</td><td>           Establishment of 765 kV Substation at suitable location near Rishabdeo (Distt. Udaipur) along with 2x240 MVAR (765 kV) Bus Reactor<br/><br/> <b>Future Provisions:</b><br/> <b>Space for</b> <ul style="list-style-type: none"> <li>765/400 kV ICT along with bays- 5 No. along with</li> </ul> </td><td> <ul style="list-style-type: none"> <li>240 MVAR, 765 kV Bus Reactor- 2 Nos. (7x80 MVAR including one spare unit)</li> <li>765 kV Bus reactor bays-2 Nos.</li> <li>765 kV line bays - 6 Nos. [for 765 kV Sirahi PS- Rishabdeo, Mandsaur D/c line and</li> </ul> </td></tr> </table> |                                                                                                                                                                                                                                                                                                                                                                                                                  | Sl. No. | Scope of the Transmission Scheme | Capacity | 1. | Establishment of 765 kV Substation at suitable location near Rishabdeo (Distt. Udaipur) along with 2x240 MVAR (765 kV) Bus Reactor<br><br><b>Future Provisions:</b><br><b>Space for</b> <ul style="list-style-type: none"> <li>765/400 kV ICT along with bays- 5 No. along with</li> </ul> | <ul style="list-style-type: none"> <li>240 MVAR, 765 kV Bus Reactor- 2 Nos. (7x80 MVAR including one spare unit)</li> <li>765 kV Bus reactor bays-2 Nos.</li> <li>765 kV line bays - 6 Nos. [for 765 kV Sirahi PS- Rishabdeo, Mandsaur D/c line and</li> </ul> |
| Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Capacity                                                                                                                                                                                                                                                                                                                                                                                                         |         |                                  |          |    |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                |
| 1.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Establishment of 765 kV Substation at suitable location near Rishabdeo (Distt. Udaipur) along with 2x240 MVAR (765 kV) Bus Reactor<br><br><b>Future Provisions:</b><br><b>Space for</b> <ul style="list-style-type: none"> <li>765/400 kV ICT along with bays- 5 No. along with</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>240 MVAR, 765 kV Bus Reactor- 2 Nos. (7x80 MVAR including one spare unit)</li> <li>765 kV Bus reactor bays-2 Nos.</li> <li>765 kV line bays - 6 Nos. [for 765 kV Sirahi PS- Rishabdeo, Mandsaur D/c line and</li> </ul>                                                                                                                                                   |         |                                  |          |    |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                |

REC Power Development and Consultancy Limited





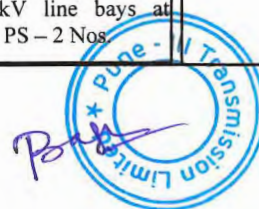
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|    |                                                                                                                       | <ul style="list-style-type: none"> <li>spare unit</li> <li>○ 765 kV line bays along with switchable line reactors – 6 Nos.</li> <li>○ 765 kV Bus Reactor along with bay: 1 No.</li> <li>○ 400 kV line bays along with switchable line reactor – 4 Nos.</li> <li>○ 400 kV line bays – 4 Nos.</li> <li>○ 400 kV Bus Reactor along with bay: 3 Nos.</li> <li>○ 400 kV Sectionalization bay: 2 sets</li> <li>○ 400/220 kV ICT along with bay - 6 Nos.</li> <li>○ 220 kV line bays -10 Nos.</li> <li>○ 220 kV Sectionalization bay: 2 sets</li> <li>○ 220 kV BC (3 Nos.) &amp; TBC (3 Nos.)</li> <li>○ STATCOM (2 x <math>\pm 300</math> MVAR) along with MSC (4x125 MVAR) &amp; MSR (2x125 MVAR) along with two number 400 kV bays.</li> </ul> | LILO of one circuit of 765 kV Chittorgarh-Banaskanta D/c line at Rishabdeo S/s]                                                                                                                                                                                                                        |  |
| 2. | Sirohi PS- Rishabdeo 765 kV D/c line along with 330 MVAR switchable line reactor for each circuit at Sirohi end       | Route Length – 170 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• 765 kV, 330 MVAR switchable line reactors at Sirohi PS– 2 Nos.</li> <li>• Switching equipment for 765 kV, 330 MVAR switchable line reactors at Sirohi PS– 2 Nos.</li> <li>• 110 MVAR (765 kV) spare reactor single phase unit at Sirohi PS – 1 No.</li> </ul> |  |
| 3. | Rishabdeo - Mandsaur PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at Rishabdeo end | Route Length – 160 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• 765 kV, 240 MVAR switchable line reactors at Rishabdeo – 2 Nos.</li> <li>• Switching equipment for 765 kV, 240 MVAR switchable line reactors at Rishabdeo – 2 Nos.</li> </ul>                                                                                 |  |
| 4. | LILO of one circuit of 765 kV Chittorgarh-Banaskanta D/c line at Rishabdeo S/s (20 km)                                | LILO route length~ 20 km                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                        |  |
| 5. | 2 No. of 765 kV line bays each at Sirohi PS & Mandsaur S/s                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• 765 kV line bays – 4 Nos. (2 Nos. each at Sirohi PS &amp; Mandsaur PS)</li> </ul>                                                                                                                                                                             |  |



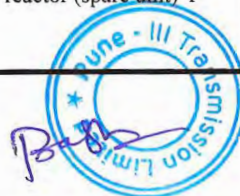


|         | <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey</li> <li>Developer of Sirohi PS to provide space for 2 Nos. of 765 kV line bays at Sirohi PS along with the space for switchable line reactors, including spare unit.</li> <li>Developer of Mandsaur PS to provide space for 2 Nos. of 765 kV line bays at Mandsaur PS.</li> <li>Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned</li> <li>Switchable line reactors to be implemented with NGR bypass arrangement.</li> <li>The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |
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| 13.     | <p><b>Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2 : 5.5 GW) (Jaisalmer/Barmer Complex): Part F (By clubbing Part F1 &amp; F2)</b></p> <p>Tentative Implementation timeframe : 24 months from SPV Transfer</p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity</th></tr> </thead> <tbody> <tr> <td>1.</td><td> <p>Establishment of 3x1500 MVA, 765/400 kV &amp; 2x500 MVA, 400/220 kV Barmer-I Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <p><b>Future provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>• 765/400 kV ICT along with bays- 3 Nos.</li> <li>• 765 kV line bays along with switchable line reactors – 4 Nos.</li> <li>• 765 kV Bus Reactor along with bay: 1 No.</li> <li>• 400 kV line bays –4</li> <li>• 400 kV line bays along with switchable line reactor –4 Nos.</li> <li>• 400/220 kV ICT along with bays -8 Nos.</li> <li>• 400 kV Bus Reactor along with bay: 1 No.</li> <li>• 400 kV Sectionalization bays: 2 sets</li> <li>• 220 kV line bays for connectivity of RE Applications -10 Nos.</li> <li>• 220 kV Sectionalization bay: 3 sets</li> <li>• 220 kV BC (3 Nos.) &amp; TBC (3 Nos.)</li> <li>• STATCOM (2x±300 MVAR) along with MSC (4x125 MVAR) &amp; MSR (2x125 MVAR) along with two number 400 kV bays</li> </ul> </td><td> <ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICT- 3 Nos. (10x500 MVA including one spare unit)</li> <li>• 765 kV ICT bays-3 Nos.</li> <li>• 240 MVAR, 765 kV Bus Reactor-2 Nos. (7x80 MVAR, including one spare unit)</li> <li>• 765 kV Bus reactor bays-2 Nos.</li> <li>• 765 kV line bays- 2 Nos. (for D/c line to Sirohi PS)</li> <li>• 400/220 kV, 500 MVA ICT -2 Nos.</li> <li>• 400 kV ICT bays- 5 Nos.</li> <li>• 125 MVAR, 420 kV Bus Reactor-2 Nos.</li> <li>• 400 kV Bus reactor bays- 2 Nos.</li> </ul> </td></tr> </tbody> </table> | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Scope of the Transmission Scheme | Capacity | 1. | <p>Establishment of 3x1500 MVA, 765/400 kV &amp; 2x500 MVA, 400/220 kV Barmer-I Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <p><b>Future provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>• 765/400 kV ICT along with bays- 3 Nos.</li> <li>• 765 kV line bays along with switchable line reactors – 4 Nos.</li> <li>• 765 kV Bus Reactor along with bay: 1 No.</li> <li>• 400 kV line bays –4</li> <li>• 400 kV line bays along with switchable line reactor –4 Nos.</li> <li>• 400/220 kV ICT along with bays -8 Nos.</li> <li>• 400 kV Bus Reactor along with bay: 1 No.</li> <li>• 400 kV Sectionalization bays: 2 sets</li> <li>• 220 kV line bays for connectivity of RE Applications -10 Nos.</li> <li>• 220 kV Sectionalization bay: 3 sets</li> <li>• 220 kV BC (3 Nos.) &amp; TBC (3 Nos.)</li> <li>• STATCOM (2x±300 MVAR) along with MSC (4x125 MVAR) &amp; MSR (2x125 MVAR) along with two number 400 kV bays</li> </ul> | <ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICT- 3 Nos. (10x500 MVA including one spare unit)</li> <li>• 765 kV ICT bays-3 Nos.</li> <li>• 240 MVAR, 765 kV Bus Reactor-2 Nos. (7x80 MVAR, including one spare unit)</li> <li>• 765 kV Bus reactor bays-2 Nos.</li> <li>• 765 kV line bays- 2 Nos. (for D/c line to Sirohi PS)</li> <li>• 400/220 kV, 500 MVA ICT -2 Nos.</li> <li>• 400 kV ICT bays- 5 Nos.</li> <li>• 125 MVAR, 420 kV Bus Reactor-2 Nos.</li> <li>• 400 kV Bus reactor bays- 2 Nos.</li> </ul> | PFC Consulting Limited |
| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |
| 1.      | <p>Establishment of 3x1500 MVA, 765/400 kV &amp; 2x500 MVA, 400/220 kV Barmer-I Pooling Station along with 2x240 MVAR (765 kV) Bus Reactor &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <p><b>Future provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>• 765/400 kV ICT along with bays- 3 Nos.</li> <li>• 765 kV line bays along with switchable line reactors – 4 Nos.</li> <li>• 765 kV Bus Reactor along with bay: 1 No.</li> <li>• 400 kV line bays –4</li> <li>• 400 kV line bays along with switchable line reactor –4 Nos.</li> <li>• 400/220 kV ICT along with bays -8 Nos.</li> <li>• 400 kV Bus Reactor along with bay: 1 No.</li> <li>• 400 kV Sectionalization bays: 2 sets</li> <li>• 220 kV line bays for connectivity of RE Applications -10 Nos.</li> <li>• 220 kV Sectionalization bay: 3 sets</li> <li>• 220 kV BC (3 Nos.) &amp; TBC (3 Nos.)</li> <li>• STATCOM (2x±300 MVAR) along with MSC (4x125 MVAR) &amp; MSR (2x125 MVAR) along with two number 400 kV bays</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICT- 3 Nos. (10x500 MVA including one spare unit)</li> <li>• 765 kV ICT bays-3 Nos.</li> <li>• 240 MVAR, 765 kV Bus Reactor-2 Nos. (7x80 MVAR, including one spare unit)</li> <li>• 765 kV Bus reactor bays-2 Nos.</li> <li>• 765 kV line bays- 2 Nos. (for D/c line to Sirohi PS)</li> <li>• 400/220 kV, 500 MVA ICT -2 Nos.</li> <li>• 400 kV ICT bays- 5 Nos.</li> <li>• 125 MVAR, 420 kV Bus Reactor-2 Nos.</li> <li>• 400 kV Bus reactor bays- 2 Nos.</li> </ul> |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |

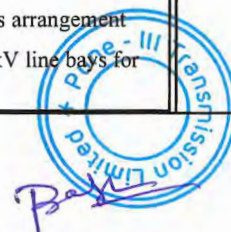
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|    |                                                                                                                 | <ul style="list-style-type: none"> <li>• 400 kV line bays - 2 Nos. [for D/c line to Fatehgarh-III(Section-2) PS]</li> <li>• 220 kV ICT bays- 2 Nos.</li> <li>• 220 kV line bays: 4 Nos. (for RE connectivity)</li> <li>• 220 kV BC (1 No.) &amp; TBC (1 No.)</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                        |
| 2. | Fatehgarh-III (Section-2) PS – Barmer-I PS 400 kV D/c line (Quad)                                               | Route Length ~50 km                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                        |
| 3. | Barmer-I PS– Sirohi PS 765 kV D/c line along with 240 MVAR switchable line reactor for each circuit at each end | Route Length ~ 200 km                                                                                                                                                                                                                                                   | <ul style="list-style-type: none"> <li>• 765 kV, 240 MVAR switchable line reactors at Barmer-I PS – 2 Nos.</li> <li>• 765 kV, 240 MVAR switchable line reactors at Sirohi PS – 2 Nos.</li> <li>• Switching equipment for 765 kV 240 MVAR switchable line reactors at Barmer-I PS – 2 Nos.</li> <li>• Switching equipment for 765 kV 240 MVAR switchable line reactors at Sirohi PS – 2 Nos.</li> </ul> |
| 4. | 2 No. of 400 kV line bays at Fatehgarh-III (Section-2) PS                                                       | 400 kV line bays at Fatehgarh-III (Section-2) PS - 2 Nos.                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                        |
| 5. | 2 No. of 765 kV line bays at Sirohi PS                                                                          | 765 kV line bays at Sirohi PS – 2 Nos.                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                        |



|         | <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey</li> <li>Developer of Sirohi PS to provide space for 2 Nos. of 765 kV line bays at Sirohi PS along with the space for switchable line reactor.</li> <li>Developer of Fatehgarh-III PS (Section-2) to provide space for 2 Nos. of 400 kV line bays at Fatehgarh-III PS (Section-2).</li> <li>Switchable line reactors to be implemented with NGR bypass arrangement</li> <li>Implementation of A, B, C, D, E, F, H1, H2 packages shall be aligned.</li> <li>The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |
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| 14.     | <p><b>Transmission System for Evacuation of Power from Rajasthan REZ Ph-IV (Part-2 : 5.5 GW) (Jaisalmer/Barmer Complex): Part H1</b></p> <p>Tentative Implementation timeframe : 24 months from SPV Transfer</p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Scope of the Transmission Scheme</th><th>Capacity</th></tr> </thead> <tbody> <tr> <td>1.</td><td> <p>Establishment of 765/400 kV (2x1500 MVA), 400/22 kV (2x500 MVA) &amp; 220/132 kV (3x200 MVA) Kurawar S/s with 2x330 MVAR 765 kV bus reactor and 1x125 MVAR, 420 kV bus reactor.</p> <p><b>Future Provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>765/400 kV ICT along with bays- 4 no.</li> <li>765 kV line bays along with switchable line reactors – 8 nos.</li> <li>765 kV Bus Reactor along with bay: 2 no.</li> <li>765 kV Sectionalizer bay: 1 -set</li> <li>400 kV line bays along with switchable line reactor – 8 nos.</li> <li>400/220 kV ICT along with bays - 6 nos.</li> <li>420 kV Bus Reactor along with bay: 3 nos.</li> <li>400 kV Sectionalization bay: 1-set</li> <li>220 kV line bays: 12 nos.</li> <li>220 kV Sectionalization bay: 1set</li> <li>220 kV BC and TBC: 1 no.</li> <li>220/132 kV ICT along with bays: 5 Nos.</li> <li>132 kV line bays: 16 nos.</li> <li>132 kV Sectionalization bay: 1 set</li> </ul> </td><td> <ul style="list-style-type: none"> <li>765/400 kV, 1500 MVA ICT – 2 (7 single units of 500 MVA including one spare unit)</li> <li>400/220 kV, 500 MVA ICT – 2</li> <li>220/132 kV, 200 MVA ICT – 3</li> <li>765 kV ICT bays- 2</li> <li>400 kV ICT bays- 4</li> <li>220 kV ICT bays – 5</li> <li>132 kV ICT bays - 3</li> <li>330 MVAR 765 kV bus reactor-2</li> <li>125 MVAR 420 kV bus reactor-1</li> <li>765 kV reactor bay- 2</li> <li>765 kV line bays- 4</li> <li>400 kV line bays- 4</li> <li>400 kV reactor bay- 1</li> <li>220 kV BC – 1</li> <li>220 kV TBC – 1</li> <li>132 kV TBC – 1</li> <li>110 MVAR, 765 kV, 1-ph reactor (spare unit)-1</li> <li>80 MVAR, 765 kV, 1-ph reactor (spare unit)-1</li> </ul> </td></tr> </tbody> </table> | Sl. No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Scope of the Transmission Scheme | Capacity | 1. | <p>Establishment of 765/400 kV (2x1500 MVA), 400/22 kV (2x500 MVA) &amp; 220/132 kV (3x200 MVA) Kurawar S/s with 2x330 MVAR 765 kV bus reactor and 1x125 MVAR, 420 kV bus reactor.</p> <p><b>Future Provisions:</b></p> <p>Space for</p> <ul style="list-style-type: none"> <li>765/400 kV ICT along with bays- 4 no.</li> <li>765 kV line bays along with switchable line reactors – 8 nos.</li> <li>765 kV Bus Reactor along with bay: 2 no.</li> <li>765 kV Sectionalizer bay: 1 -set</li> <li>400 kV line bays along with switchable line reactor – 8 nos.</li> <li>400/220 kV ICT along with bays - 6 nos.</li> <li>420 kV Bus Reactor along with bay: 3 nos.</li> <li>400 kV Sectionalization bay: 1-set</li> <li>220 kV line bays: 12 nos.</li> <li>220 kV Sectionalization bay: 1set</li> <li>220 kV BC and TBC: 1 no.</li> <li>220/132 kV ICT along with bays: 5 Nos.</li> <li>132 kV line bays: 16 nos.</li> <li>132 kV Sectionalization bay: 1 set</li> </ul> | <ul style="list-style-type: none"> <li>765/400 kV, 1500 MVA ICT – 2 (7 single units of 500 MVA including one spare unit)</li> <li>400/220 kV, 500 MVA ICT – 2</li> <li>220/132 kV, 200 MVA ICT – 3</li> <li>765 kV ICT bays- 2</li> <li>400 kV ICT bays- 4</li> <li>220 kV ICT bays – 5</li> <li>132 kV ICT bays - 3</li> <li>330 MVAR 765 kV bus reactor-2</li> <li>125 MVAR 420 kV bus reactor-1</li> <li>765 kV reactor bay- 2</li> <li>765 kV line bays- 4</li> <li>400 kV line bays- 4</li> <li>400 kV reactor bay- 1</li> <li>220 kV BC – 1</li> <li>220 kV TBC – 1</li> <li>132 kV TBC – 1</li> <li>110 MVAR, 765 kV, 1-ph reactor (spare unit)-1</li> <li>80 MVAR, 765 kV, 1-ph reactor (spare unit)-1</li> </ul> | REC Power Development and Consultancy Limited |
| Sl. No. | Scope of the Transmission Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                               |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <ul style="list-style-type: none"> <li>• 132 kV TBC— 1 no.</li> <li>• STATCOM (<math>\pm 300</math> MVAR) along with MSC (2x125 MVAR) &amp; MSR (1x125 MVAR) along with 400 kV bay.</li> </ul> |                                                                                                                                                                                                                                                 |
| 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Mandsaur – Kurawar 765 kV D/c line                                                                                                                                                             | Route length: 235 km                                                                                                                                                                                                                            |
| 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 240 MVAR switchable line reactors on each ckt at both ends of Mandsaur – Kurawar 765 kV D/c line                                                                                               | <ul style="list-style-type: none"> <li>• 240 MVAR, 765 kV switchable line reactor- 4 (2 for Mandsaur end and 2 for Kurawar end)</li> <li>• Switching equipment for 765 kV line reactor- 4 (2 for Mandsaur end and 2 for Kurawar end)</li> </ul> |
| 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 nos. of 765 kV line bays at Mandsaur S/s for termination of Mandsaur – Kurawar 765 kV D/c line                                                                                               | • 765 kV line bays – 2 Nos. (for Mandsaur end)                                                                                                                                                                                                  |
| 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LILO of Indore – Bhopal 765 kV S/c line at Kurawar                                                                                                                                             | LILO route length: 15 km.                                                                                                                                                                                                                       |
| 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Kurawar – Ashtha 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line                                                                                                                        | Route length: 65 km                                                                                                                                                                                                                             |
| 7.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 nos. of 400 kV line bays at Ashtha (MP) S/s for termination of Kurawar – Ashtha 400 kV D/c line                                                                                              | 400 kV line bays – 2 Nos. [for Ashtha (MP) end]                                                                                                                                                                                                 |
| 8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | LILO of one circuit of Indore – Itarsi 400 kV D/c line at Ashtha                                                                                                                               | LILO route length: 30 km                                                                                                                                                                                                                        |
| 9.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2 nos. of 400 kV line bays at Ashtha (MP) S/s for LILO of one circuit of Indore – Itarsi 400 kV D/c line at Ashtha                                                                             | 400 kV line bays – 2 Nos. [for Ashtha (MP) end]                                                                                                                                                                                                 |
| 10.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Shujalpur – Kurawar 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent) line                                                                                                                     | Route length: 40 km                                                                                                                                                                                                                             |
| 11.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2 nos. of 400 kV line bays at Shujalpur(PG) S/s for termination of Shujalpur – Kurawar 400 kV D/c line                                                                                         | 400 kV line bays – 2 Nos. [for Shujalpur (PG) end]                                                                                                                                                                                              |
| <p><b>Note:</b></p> <ol style="list-style-type: none"> <li>The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.</li> <li>MPPTCL has confirmed availability of space for 2 nos. 400 kV bays at Ashta (MP) S/s and for 2 nos. additional bays, MPPTCL has informed that adjacent land is private land and may be purchased by the project developer at their cost as per requirement.</li> <li>Implementation of A,B,C,D, E ,F, H1 &amp; H2 packages shall be aligned</li> <li>TSP of the subject scheme shall implement Inter-tripping scheme on Mandsaur – Kurawar 765 kV D/c line (for tripping of the switchable line reactor at Mandsaur/Kurawar end along with the main line breaker).</li> <li>Switchable line reactors to be implemented with NGR bypass arrangement</li> <li>Developer of Mandsaur S/s to provide space for 2 Nos. 765 kV line bays for Mandsaur – Kurawar 765 kV D/c line.</li> </ol> |                                                                                                                                                                                                |                                                                                                                                                                                                                                                 |



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|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | <p>vii. POWERGRID to provide space for 2 Nos. 400 kV line bays at Shujalpur S/s for Shujalpur – Kurawar 400 kV D/c line.</p> <p>viii. The implementation timeline mentioned above is tentative. Final Timeline would be indicated in the RfP Document.</p> |  |
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2. The appointment of the Bid Process Coordinator is subject to the conditions laid down in the Guidelines issued by Ministry of Power in this regard, amended from time to time.

[F. No. 15/3/2018-Trans-Part(1)]  
BIHARI LAL, Under Secy. (Transmission)

### अधिसूचना

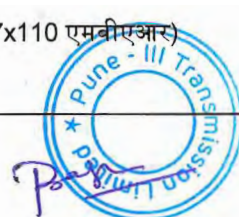
नई दिल्ली, 29 अगस्त, 2023

**का.आ. 3895(अ).**—केंद्र सरकार द्वारा, विद्युत अधिनियम, 2003 (2003 का36) की धारा 63 के तहत परिचालित दिशा-निर्देशों के उप-पैरा 3.2 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, नीचे दी गई तालिका में उल्लिखित राजपत्र अधिसूचना के माध्यम से टैरिफ आधारित प्रतिस्पर्धी बोली (टीबीसीबी) के अंतर्गत कार्यान्वयन के लिए निम्नलिखित पारेषण स्कीमों के कार्यक्षेत्र को अधिसूचित/संशोधित किया गया था:

| क्र.सं. | स्कीम का नाम                                                                                           | राजपत्र अधिसूचना जिसके द्वारा स्कीम अधिसूचित की गई थी                                                                                                                    |
|---------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | चरण-III भाग बी1 के अंतर्गत राजस्थान में आरईजेड से विद्युत की निकासी (20 गीगावॉट) के लिए पारेषण प्रणाली | <p>का.आ.5032 (अ) दिनांक 6.12.2021</p> <p>[फा.सं. 15/3/2018-ट्रांस-पार्ट(1)]</p> <p>एवं</p> <p>का.आ.1724अ दिनांक 23.02.2023</p> <p>[फा.सं. 15/3/2018-ट्रांस-पार्ट(1)]</p> |

2. अब, केंद्र सरकार ने राष्ट्रीय पारेषण समिति (एनसीटी) की 14वीं बैठक की सिफारिशों की जांच के बाद उपरोक्त उल्लिखित स्कीमों के कार्यक्षेत्र को संशोधित करने का निर्णय लिया है। इस प्रकार, स्कीम के कार्यक्षेत्र "चरण-III भाग बी1 के तहत राजस्थान में आरईजेड से विद्युत की निकासी (20 गीगावॉट) के लिए पारेषण प्रणाली" को निम्नानुसार संशोधित किया गया है:

| क्र.सं. | संशोधित कार्यक्षेत्र                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| 1.      | <p>2x330 एमवीएआर (765 केवी) बस रिएक्टर एवं 2x125 एमवीएआर (420 केवी) बस रिएक्टर के साथ भादला-3 में 2x1500 एमवीए, 765/400 केवी एवं 3x500 एमवीए, 400/220 केवी पूलिंग स्टेशन की स्थापना</p> <ul style="list-style-type: none"> <li>765/400 केवी 1500 एमवीए आईसीटी: 2 (एक स्पेयर यूनिट सहित 7x500 एमवीए)</li> <li>765 केवी आईसीटी बे - 2</li> <li>400/220 केवी, 500 एमवीए आईसीटी - 3</li> <li>765 केवी लाइन बे -2</li> <li>400 केवी आईसीटी बे - 5</li> <li>220 केवी आईसीटी बे - 3</li> <li>220 केवी लाइन बे: 5</li> <li>330 एमवीएआर बस रिएक्टर-2 (एक स्पेयर यूनिट सहित 7x110 एमवीएआर)</li> <li>765 केवी रिएक्टर बे - 2</li> </ul> |





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|    | <ul style="list-style-type: none"> <li>• 125 एमवीएआर, 420 केवी बस रिएक्टर- 2</li> <li>• 420 केवी रिएक्टर बे - 2</li> </ul> <p><b>भावी प्रावधान: निम्नलिखित के लिए स्थान</b></p> <ul style="list-style-type: none"> <li>• बे सहित 765/400 केवी आईसीटी: 2</li> <li>• स्विचेबल लाइन रिएक्टर सहित 765 केवी लाइन बे: 6</li> <li>• 765 केवी लाइन बे: 4</li> <li>• बे सहित 765 केवी बस रिएक्टर: 2</li> <li>• बे सहित 400/220 केवी आईसीटी: 10</li> <li>• 400 केवी लाइन बे: 8</li> <li>• <b>स्विचेबल लाइन रिएक्टरों सहित 400 केवी लाइन बे: 8</b></li> <li>• बे सहित 400 केवी बस रिएक्टर: 2</li> <li>• 400 केवी सेक्शनलाइजेशन बे: 2 सेट</li> <li>• 220 केवी लाइन बे: 12</li> <li>• 220 केवी सेक्शनलाइजेशन बे: 2 सेट</li> </ul> |
| 2. | <p>भादला-3 पीएस - सीकर-II एस/एस 765 केवी डी/सी+ लाइन के प्रत्येक छोर पर प्रत्येक सर्किट के लिए 330 एमवीएआर स्विचेबल लाइन रिएक्टर सहित भादला-3 पीएस - सीकर-II एस/एस 765 केवी डी/सी लाइन</p> <ul style="list-style-type: none"> <li>• 765 केवी 330 एमवीएआर स्विचेबल लाइन रिएक्टर के लिए स्विचिंग उपकरण - 4</li> <li>• 765 केवी, 330 एमवीएआर स्विचेबल लाइन रिएक्टर - 4</li> </ul>                                                                                                                                                                                                                                                                                                                                       |
| 3. | <p>सीकर-II में 765 केवी लाइन बे</p> <ul style="list-style-type: none"> <li>• 765 केवी लाइन बे - 2</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|    | <p>i. शॉर्ट सर्किट स्तर को सीमित करने के लिए भादला-3 में 400 केवी एवं 220 केवी स्तर पर उपयुक्त सेक्शन-लाइजेशन का प्रावधान रखा जाएगा।</p> <p>ii. सीकर-II एस/एस के विकासकर्ता स्विचेबल लाइन रिएक्टरों के लिए स्थान के साथ-साथ सीकर-II एस/एस में 765 केवी लाइन बे में से 2 बे के लिए स्थान उपलब्ध कराएंगे।</p> <p>iii. बस स्विचिंग स्कीम की आवश्यकता के लिए भविष्य में दो 220 केवी बस कपलर बे और 2 ट्रांसफर बस कपलर बे के लिए स्थान संबंधी प्रावधान रखा जाएगा।</p>                                                                                                                                                                                                                                                      |

3. मूल अधिसूचना के अनुसार, उपरोक्त स्कीम के लिए बोली प्रक्रिया समन्वयक अपरिवर्तित रहेंगे।

[फा. सं. 15/3/2018-ट्रांस-पार्ट (1)]

बिहारी लाल, अवर सचिव (पारेषण)

#### NOTIFICATION

New Delhi, the 29th August, 2023

**S.O. 3895(E).**—In exercise of the powers conferred by sub- para 3.2 of the Guidelines circulated under Section 63 of the Electricity Act, 2003 (no. 36 of 2003), the Central Government had notified/ modified scope of following transmission schemes for implementation under Tariff/Based Competitive Bidding (TBCB) vide Gazette Notification mentioned below table:

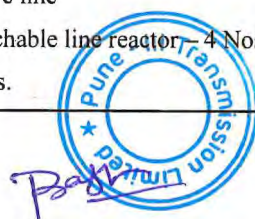




| Sl. No. | Name of the Scheme                                                                                | Gazette Notification by which Scheme was notified                                                                                    |
|---------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | Transmission System for Evacuation of Power from REZ in Rajasthan (20 GW) under phase-III Part B1 | S.O. 5032(E) dated 6.12.2021 [F.No.15/3/2018-Trans-Part(1)]<br>And<br>S.O. 1724(E) dated 23.02.2023 [F.NO. 15/3/2018 –Trans-Part(1)] |

2. Now, the Central Government has decided to modify the scope of above mentioned scheme after examining the recommendations of the 14<sup>th</sup> meeting of National Committee on Transmission (NCT). As such, the scopes of scheme “Transmission System for Evacuation of Power from REZ in Rajasthan (20 GW) under phase-III Part B1” is hereby modified as under:

| Sl. No. | Revised Scope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | <p>Establishment of 2x1500 MVA, 765/400 kV &amp; 3x500 MVA, 400/220 kV pooling station at Bhadla-3 along with 2x330 MVAR (765 kV) Bus Reactor &amp; 2x125 MVAR (420 kV) Bus Reactor</p> <ul style="list-style-type: none"> <li>765/400 kV 1500 MVA ICTs: 2 Nos. (7x500 MVA including one spare unit)</li> <li>765 kV ICT bays - 2 Nos.</li> <li>400/220 kV, 500 MVA ICT – 3 Nos.</li> <li>765 kV line bays -2 Nos.</li> <li>400 kV ICT bays – 5 Nos.</li> <li>220 kV ICT bays - 3 Nos.</li> <li>220 kV line bays: 5 Nos.</li> <li>330 MVAR Bus Reactor-2 Nos. (7x110 MVAR, including one spare unit)</li> <li>765 kV reactor bay- 2 Nos.</li> <li>125 MVAR, 420 kV bus reactor - 2 Nos.</li> <li>420 kV reactor bay - 2 Nos.</li> </ul> <p><u>Future provisions: Space for</u></p> <ul style="list-style-type: none"> <li>765/400 kV ICTs along with bays: 2 Nos.</li> <li>765 kV line bay along with switchable line reactor: 6 Nos.</li> <li>765 kV line bay: 4 Nos.</li> <li>765 kV Bus Reactor along with bays: 2 Nos.</li> <li>400/220 kV ICTs along with bays: 10 Nos.</li> <li>400 kV line bays: 8 Nos.</li> <li><b>400 kV line bays along with switchable line reactors: 8 Nos.</b></li> <li>400 kV Bus Reactor along with bays: 2 Nos.</li> <li>400 kV Sectionalization bay: 2 sets</li> <li>220 kV line bays: 12 Nos.</li> <li>220 kV Sectionalization bay: 2 sets</li> </ul> |
| 2.      | <p>Bhadla-3 PS – Sikar-II S/s 765 kV D/c line along with 330 MVAR Switchable line reactor for each circuit at each end of Bhadla-3 PS – Sikar-II S/s 765 kV D/c line</p> <ul style="list-style-type: none"> <li>Switching equipment for 765 kV 330 MVAR switchable line reactor – 4 Nos.</li> <li>765 kV, 330 MVAR Switchable line reactor- 4 Nos.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



|      |                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 3.   | 765 kV line bays at Sikar-II <ul style="list-style-type: none"> <li>• 765 kV line bays – 2 Nos.</li> </ul>                                       |
| i.   | Provision of suitable sectionalization shall be kept at Bhadla-3 at 400 kV & 220 kV level to limit short circuit level.                          |
| ii.  | Developer of Sikar-II S/s to provide space for 2 Nos. of 765 kV line bays at Sikar-II S/s along with space for switchable line reactors.         |
| iii. | Space provision for future 2 Nos. 220 kV Bus Coupler bay and 2 Nos. Transfer Bus Coupler Bay shall be kept for bus switching scheme requirement. |

3. Bid Process Co-ordinators for above scheme will remain unchanged, as per original notification.

[F. No. 15/3/2018-Trans-Part (1)]

BIHARI LAL, Under Secy. (Trans)





## Annexure A2

**GOVERNMENT OF INDIA  
MINISTRY OF CORPORATE AFFAIRS**

Central Registration Centre

**Certificate of Incorporation**

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that PUNE- III TRANSMISSION LIMITED is incorporated on this SIXTEENTH day of JANUARY TWO THOUSAND TWENTY FOUR under the Companies Act, 2013 (18 of 2013) and that the company is Company limited by shares

The Corporate Identity Number of the company is **U42201DL2024GOI425330**

The Permanent Account Number (PAN) of the company is **AAOCP3976B\***

The Tax Deduction and Collection Account Number (TAN) of the company is **DELP40910C\***

Given under my hand at Manesar this SIXTEENTH day of JANUARY TWO THOUSAND TWENTY FOUR

Certification signature by DS MINISTRY OF CORPORATE  
AFFAIRS 10 <roc.crc@mca.gov.in> Validity Unknown

Digitally signed by  
DS MINISTRY OF CORPORATE  
AFFAIRS 10  
Date: 2024.01.16 15:19:08 IST

Pankaj Srivastava

Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on [mca.gov.in](http://mca.gov.in)

Mailing Address as per record available in Registrar of Companies office:

PUNE- III TRANSMISSION LIMITED

Urjanidhi, First Floor, Barakhamba Lane- 1, Connaught Place, New Delhi, Central Delhi- 110001, Delhi

\*as issued by Income tax Department



## Annexure A3

**Form No. INC-33****e-MOA (e-Memorandum of Association)**

[Pursuant to Schedule I (see Sections 4 and 5) to the Companies Act, 2013]]



Form language

☒ English ☐ Hindi

Refer instruction kit for filing the form

All fields marked in \* are mandatory

**\* Table applicable to company as notified under schedule I of the Companies Act, 2013**

(A - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY SHARES  
B - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL  
C - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY GUARANTEE AND HAVING A SHARE CAPITAL  
D - MEMORANDUM OF ASSOCIATION OF AN UNLIMITED COMPANY AND NOT HAVING SHARE CAPITAL  
E - MEMORANDUM OF ASSOCIATION OF AN UNLIMITED COMPANY AND HAVING SHARE CAPITAL)

A - MEMORANDUM OF  
ASSOCIATION OF A COMPANY  
LIMITED BY SHARES

**Table A/B/C/D/E**

1 The name of the company is

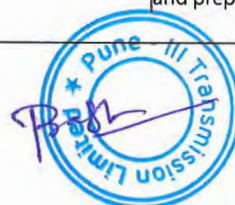
PUNE- III TRANSMISSION LIMITED

2 The registered office of the company will be situated in the State of

Delhi

3 (a) The objects to be pursued by the company on its incorporation are:

1. To develop Power System Network  
To plan, promote and develop an integrated and efficient power transmission system network in all its aspects including planning, investigation, research, design and engineering, preparation of preliminary, feasibility and definite project reports, construction, operation and maintenance of transmission lines, sub-stations, load dispatch stations and communication facilities and appurtenant works, coordination of integrated operation of state, regional and national grid system, execution of turn-key jobs for other utilities/organizations and wheeling of power in accordance with the policies, guidelines and objectives laid down by the Central Government from time to time.
2. To study, investigate, collect information and data  
To study, investigate, collect information and data, review operation, plan, research, design and prepare Report, diagnose



operational difficulties and weaknesses and advise on the remedial measures to improve, undertake development of new and innovative product connected with business of the Company as well as modernize existing EHV, HV lines and Sub-Stations.

3. To act as Consultants/ Technical Advisers of public/ private sector enterprises etc.

To act as consultants, technical advisors, surveyors and providers of technical and other services to Public or Private Sector enterprises engaged in the planning, investigation, research, design and preparations of preliminary, feasibility and definite project reports, manufacture of power plant and equipment, construction, generation, operation and maintenance of power transmission system from power generating stations and projects, transmission, distribution and sale of power.

(b) \*Matters which are necessary for furtherance of the objects specified in clause 3(a) are

1. To obtain authority etc. to carry out its objects  
To obtain license, approvals and authorization from Governmental Statutory and Regulatory Authorities, as may be necessary to carry out and achieve the Objects of the Company and connected matters which may seem expedient to develop the business interests of the Company in India and abroad.

2. To obtain charters, concession etc.

To enter into any arrangement with the Government of India or with any State Government or with other authorities/ commissions, local bodies or public sector or private sector undertakings, Power Utilities, Financial Institutions, Banks, International Funding Agencies and obtain such charters, subsidies, loans, advances or other money, grants, contracts, rights, sanctions,



privileges, licenses or concessions whatsoever (whether statutory or otherwise) which the Company may think it desirable to obtain for carrying its activities in furthering the interests of the Company or its members.

3. To enter into Implementation/ Construction Agreement  
To enter into any agreement, contract or any arrangement for the implementation of the power generation, evacuation, transmission and distribution system and network with Power/ Transmission Utilities, State Electricity Boards, Vidyut Boards, Transmission Companies, Generation Companies, Licensees, Statutory bodies, other organizations (whether in Private, Public or Joint Sector Undertaking) and bulk consumers of power etc.

4. To carry on the business or purchasing, importing, exporting and trading power  
To carry on the business or purchasing, importing, exporting and trading of power subject to the provisions of Electricity Act, 2003 and to supply electric power generated by other plants to distribution companies, trading companies, other generation companies and other Persons, and in this regard execute agreements with Central and State generating authorities, departments or companies, Independent Power Producers and other Persons.

5. To enter into Agreements; etc.  
To secure the payments of money, receivables on transmission and distribution of electricity and sale of fuel, as the case may be, to the State Electricity Boards, Vidyut Boards, Transmission Utilities, Generating Companies, Transmission Companies, Distribution Companies, State Governments, Licensees, statutory bodies, other organizations (whether in Private, Public or Joint Sector Undertaking) and bulk





consumers of power etc. through Letter of Credits/ESCROW and other security documents.

6. To execute transmission service Agreements

To execute Transmission Service Agreements or other agreements for transmission of power to distribution, trading, and other companies, State Electricity Boards, State Utilities and any other organization and Persons.

7. To co-ordinate with Central Transmission Utility  
To coordinate with the Central Transmission Utility for transmission of electricity under the provisions of Electricity Act 2003.

8. To borrow money

Subject to provisions of Sections 73, 179, 180 and other applicable provisions of the Companies Act, 2013 and subject to other laws or directives, if any, of SEBI/RBI, to borrow money in Indian rupees or foreign currencies and obtain foreign lines of credits/ grants/aids etc. or to receive money or deposits from public for the purpose of the Company's business in such manner and on such terms and with such rights, privileges and obligations as the Company may think fit. The Company may issue bonds/ debentures whether secured or unsecured; bills of exchange, promissory notes or other securities, mortgage or charge on all or any of the immovable and movable properties, present or future and all or any of the uncalled capital for the time being of the Company as the Company may deem fit and to repay, redeem or pay off any such securities or charges.

9. To lend money

To lend money on property or on mortgage of immovable properties or against Bank guarantee and to make advances of money against future supply of goods and services on such terms as the Directors may consider necessary and to invest money of the Company in such



manner as the Directors may think fit and to sell, transfer or to deal with the same.

10. To acquire, own, lease or dispose off the property

To own, possess, acquire by purchase, lease or otherwise rights, title and interests in and to, exchange or hire real estate, equipment, Transmission lines, lands, buildings, apartments, plants, equipment, machinery, fuel blocks and hereditaments of any tenure or descriptions situated in India or abroad or any estate or interest therein and any right over or connected with land so situated and turn the same to account in any manner as may seem necessary or convenient for the purpose of business of the Company and to hold, improve, exploit, re-organize, manage, lease, sell, exchange or otherwise dispose of the whole or any part thereof.

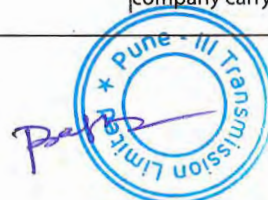
11. To deal in Scrips/Govt. Securities

Subject to applicable provisions of law, to subscribe for, underwrite, or otherwise acquire, hold, dispose of and deal with the shares, stocks, debentures or other securities and titles of indebtedness or the right to participate in profits or other similar documents issued by any Government authority, Corporation or body or by any company or body of persons and any option or right in respect thereof.

12. To create funds and appropriate profits

To create any depreciation fund, reserve fund, sinking fund, insurance fund, gratuity, provident fund or any other fund, for depreciation or for repairing, improving extending or maintaining any of the properties of the Company or for any other purposes whatsoever conducive to the interests of the Company.

13. To purchase or otherwise acquire companies  
To acquire shares, stocks, debentures or securities of any company carrying on any



business which this Company is entitled to carry on or acquisition of undertaking itself which may seem likely or calculated to promote or advance the interests of the Company and to sell or dispose of or transfer any such shares, stocks or securities and the acquired undertaking.

14. To enter into partnership Agreement or Merge / amalgamate

To enter into partnership or into any agreement for joint working, sharing or pooling profits, joint venture, amalgamation, union of interests, co-operation, reciprocal concessions or otherwise or amalgamate with any person or company carrying on or engaged in or about to carry on or engaged in any business or transaction in India or abroad which the Company is authorized to carry on or engage in any business undertaking having objects identical or similar to, as are being carried on by this Company.

15. To have agencies and branch offices in India and abroad

To establish and maintain agencies, branch offices and local agencies, to procure business in any part of India and world and to take such steps as may be necessary to give the Company such rights and privileges in any part of the world as deemed proper in the interest of the Company.

16. To promote institutions or other companies

To promote and undertake the formation of any institution or Company or subsidiary company or for any aforesaid objects intended to benefit the Company directly or indirectly and to coordinate, control and guide their activities.

17(a) To acquire know how and import-export of machinery and tools etc.

To negotiate and enter into agreements and contracts with domestic and foreign companies, persons or other organizations,



banks and financial institutions, in relation to the business of the Company including that of technical know-how, import, export, purchase or sale of plant, machinery, equipment, tools, accessories and consumables, financial assistance and for carrying out all or any of the objects of the Company.

17(b) To negotiate and enter into agreements etc.

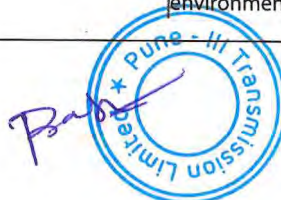
To negotiate and enter into agreements and contracts for execution of turnkey jobs, works, supplies and export of plant, machinery, tools and accessories etc.

18. To enter into contracts/arrangements in connection with issue of shares/securities. Upon and for the purpose of any issue of shares, debentures or any other securities of the Company, to enter into agreement with intermediaries including brokers, managers of issue/commission agents and underwriters and to provide for the remuneration of such persons for their services by way of payment in cash or issue of shares, debentures or other securities of the Company or by granting options to take the same or in any other manner as permissible under the law.

19. To enter into contracts of indemnity and/or guarantee  
To enter into contracts of indemnity and get guarantee and allocations for the business of the Company.

20. To arrange for Training and Development  
To make arrangements for training of all categories of employees and to employ or otherwise engage experts, advisors, consultants etc. in the interest of achieving the Company's objects.

21. To promote conservation, protect environment, theft etc.  
To promote conservation and protection of electricity from theft, safety of life and to protect environments including air, land



and water etc.

22. To provide for welfare of employees

To pay and provide for the remuneration, amelioration and welfare of persons employed or formerly employed by the Company and their families providing for pension, allowances, bonuses, other payments or by creating for the purpose from time to time the Provident Fund, Gratuity and other Funds or Trusts. Further to undertake building or contributing to the building or houses, dwellings or chawls by grants of money, or by helping persons employed by the Company to effect or maintain insurance on their lives by contributing to the payment of premium or otherwise and by providing or subscribing or contributing towards educational institutions, recreation, hospitals and dispensaries, medical and other assistance as the Company may deem fit.

23. To take Insurance

To ensure any rights, properties, undertakings, contracts, guarantees or obligations or profits of the Company of every nature and kind in any manner with any person, firm, association, institution or company.

24. To share the profits pay,

dividends and provide bonus etc To distribute among members of the Company dividend including bonus shares out of profits, accumulated profits or funds and resources of the Company in any manner permissible under law.

25. To institute and defend the legal proceedings

To institute, conduct, defend, compound or abandon any legal proceedings by or against the Company or its officers or otherwise concerning the affairs of the Company and also to compound and to allow time for payment or satisfaction of any debts or recovery due, claims or demands by or against the



Company and to refer any claims or demands by or against the Company or any differences arising in execution of contracts to conciliation and arbitration and to observe, comply with and/or challenge any awards preliminary, interim or final made in any such arbitration.

26. To pay and subsequently write off preliminary expenses

To pay out of the funds of the Company all costs, charges, expenses and preliminary and incidental to the promotion, formation, establishment and registration of the Company or other expenses incurred in this regard.

27. To contribute and make donations

Subject to provisions of Companies Act, 2013 to contribute money or otherwise assist to charitable, benevolent, religious, scientific national, defense, public or other institutions or objects or purposes.

28. To open accounts in Banks

To open an account or accounts with any individual, firm or company or with any bank bankers or shrofs and to pay into and withdraw money from such account or accounts.

29. To accept gifts, donations etc.

To accept gifts, bequests, devises and donations from members and others and to make gifts to members and others of money, assets and properties of any kind.

30. To pursue the objects of the Company as principal, agents, trustee or in any other capacity

To carry out all or any of the objects of the company and do all or any of the above things in any part of the world and either as principal, agent, contractor or trustee or otherwise and either alone or in conjunction with others.

31. To enter into Contracts To negotiate and/or enter into agreement and contract with





individuals, companies, corporations, foreign or Indian, for obtaining or providing technical, financial or any other assistance for carrying on all or any of the objects of the Company and also for the purpose of activating, research, development of projects on the basis of know-how and/or financial participation and for technical collaboration, and to acquire or provide necessary formulate and patent rights for furthering the objects of the company.

32. To contribute towards promotion of trade and industry To aid pecuniary or otherwise, any association, body or movement having for its object the solution, settlement or surmounting of industrial or labour problems or trouble or the promotion of industry or trade.

33. To take all necessary steps for winding up of the company

Subject to the provisions of Companies Act, 2013 or any amendment or re-enactment thereof in the event of winding up to distribute among the members in specie any property of the Company or any proceeds of sale on disposal of any property in accordance with the provisions of the Act.

34. To do and perform all coincidental and ancillary acts for the attainment of its objects

To do all such other things as may be deemed incidental or conducive to the attainment of the above Objects or any of them and to carry on any business which may seem to the Company capable of being conveniently carried in connection with any of the Company's Objects or calculated directly or indirectly to enhance the value of or render profitable any of the Company's property or rights.

35. To take up studies and research experiments.

To establish, provide, maintain and conduct or otherwise



subsidies research laboratories and experimental workshops for scientific, technical or researches, experiments and to undertake and carry on directly or in collaboration with other agencies scientific and technical research experiments and tests of all kinds and to process, improve and invent new products and their techniques of manufacture and to promote, encourage, reward in every manner studies and research, scientific and technical investigations and inventions of any kind that may be considered likely to assist, encourage and promote rapid advances in technology, economies, import substitution or any business which the Company is authorized to carry on.

36. To evolve scheme for restructuring or arrangement. Subject to provisions of the Companies Act, 2013, to evolve scheme for restructuring or arrangement, to amalgamate or merge or to enter into partnership or into any consortium or arrangement for sharing of profits, union of interests, co-operation, joint venture with any Person or Persons, partnership firm/firms, or company or companies carrying on or engaged in any operation capable of being conducted so conveniently in co-operation with the business of the Company or to benefit the Company or to the activities for which the Company has been established.

37. To apply for purchase, or otherwise acquire.

To apply for purchase, or otherwise acquire any trademarks, patents, brevets, inventions, licenses, concessions and the like, conferring any exclusive or nonexclusive or limited rights to use, or any secret or other information as to any invention which may be capable of being used for any of the purposes of the Company, or the acquisition of which may benefit the Company and to use,



exercise, develop or grant licenses in respect of or otherwise turn to account the property, rights or information so acquired.

38. To sell, dispose or hive off an undertaking of the Company

To sell, dispose or hive off an undertaking of the Company or any part thereof for such consideration as the Company may think fit and in particular for shares, debentures or securities of any other association, corporation or company.

39. To sell, improve, manage, develop

To sell, improve, manage, develop, exchange, loan, lease or let, under-lease, sub - let, mortgage, dispose of, deal with in any manner, turn to account or otherwise deal with any rights or property of the Company.

40. To outsource parts of its activities

To outsource parts of its activities to achieve higher efficiencies and throughputs in the achievement of its business goals.

4 The liability of the member(s) is limited, and this liability is limited to the amount unpaid if any, on the shares held by them.

The liability of the member(s) is limited

The liability of the member(s) is Unlimited

5 Every member of the company undertakes to contribute:

(i) to the assets of the company in the event of its being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the company or of such debts and liabilities as may have been contracted before he ceases to be a member; and

(ii) to the costs, charges and expenses of winding up (and for the adjustment of the rights of the contributories among

themselves), such amount as may be required, not exceeding \* \_\_\_\_\_ rupees.

(iii) The share capital of the company is \_\_\_\_\_ rupees, divided into

|       |              |           |    |             |  |
|-------|--------------|-----------|----|-------------|--|
| 10000 | Equity Share | Shares of | 10 | Rupees each |  |
|-------|--------------|-----------|----|-------------|--|



6

☒ We, the several persons, whose names and address are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association, and we respectively agree to take the number of shares in the capital of the company set against our respective names:

☐ I, whose name and address is given below, am desirous of forming a company in pursuance of this memorandum of association and agree to take all the shares in the capital of the company:

☐ We, the several persons, whose names and addresses are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association:

| Subscriber Details |                                                                                                                                                                                                                                                                                                                                            |                             |                             |                                                                                                                     |            |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------|------------|
| S. No.             | *Name, Address, Description and Occupation                                                                                                                                                                                                                                                                                                 | DIN / PAN / Passport number | No. of shares taken         | DSC                                                                                                                 | Dated      |
| 1                  | NEERAJ SINGH<br>S/o Sh. Dayashankar Singh<br>R/o Flat C-703, The Crescent Apartment,<br>Plot<br>F-2, Sector-50,<br>Noida, Gautam Budh Nagar, UP-201301<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                                                                                                 | 08613892                    | 100 Equity,0<br>Preference  | Neeraj Singh<br><small>Digitally signed by<br/>Neeraj Singh<br/>Date: 2024.01.11<br/>17:38:56 +0530</small>         | 11/01/2024 |
| 2                  | SACHIN SHUKLA<br>S/o Sh. Raj Kumar Shukla<br>R/o 4th Floor, House No. 6, H1 Block,<br>Good<br>Earth City Centre, south<br>City 2, Gurgaon - 122018<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                                                                                                     | 08613963                    | 100 Equity,0<br>Preference  | Sachin Shukla<br><small>Digitally signed by<br/>Sachin Shukla<br/>Date: 2024.01.11<br/>17:38:51 +0530</small>       | 11/01/2024 |
| 3                  | M/s PFC Consulting Limited<br>having its registered office at Urjanidhi, 1,<br>Barakhamba Lane,<br>Connaught Place, New Delhi-110001<br>Through Sh. Sachin Arora<br>S/o Sh. Prem Lal Arora R/o F5 1903,<br>Supertech<br>Eco Village 1, Near<br>Park, Greater Noida ? 201301<br>(as authorized representative of PFC<br>Consulting Limited) | AKGPA1434J                  | 9400 Equity,0<br>Preference | Sachin Arora<br><small>Digitally signed by<br/>Sachin Arora<br/>Date: 2024.01.11<br/>17:38:58 +0530</small>         | 11/01/2024 |
| 4                  | MANOJ KUMAR RANA<br>S/o Sh. Sube Singh<br>R/o A-32/E, DDA Flats, Munirka, New<br>Delhi-110067<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                                                                                                                                                          | 02263302                    | 100 Equity,0<br>Preference  | Manoj Kumar Rana<br><small>Digitally signed by<br/>Manoj Kumar Rana<br/>Date: 2024.01.11<br/>17:38:53 +0530</small> | 11/01/2024 |



|                           |                                                                                                                                                                                                                              |          |                              |                                                                                                                                                                                                                   |            |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 5                         | SANJAY KUMAR NAYAK<br>S/o Sh. Jagabandhu Nayak<br>R/o K 713, Jalvayu Tower, Sector 56<br>Gurgaon-<br>Haryana 122011<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                      | 08197193 | 100 Equity,0<br>Preference   | Sanjay<br>Kumar<br>Nayak<br><small>Digitally signed by<br/>Sanjay Kumar<br/>Nayak<br/>DN: cn=Sanjay Kumar<br/>Nayak, o=PFC, ou=, email=, c=IN<br/>Date: 2024.01.11<br/>17:08:42 +05'30'</small>                   | 11/01/2024 |
| 6                         | RISHAB JAIN<br>S/o Naveen Jain<br>R/o T-11, first floor, Green Park Extension,<br>New<br>Delhi, 110016<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                                   | 08485361 | 100 Equity,0<br>Preference   | Rishab<br>Jain<br><small>Digitally signed by<br/>Rishab Jain<br/>DN: cn=Rishab Jain, o=PFC, ou=, email=, c=IN<br/>Date: 2024.01.11<br/>17:08:56 +05'30'</small>                                                   | 11/01/2024 |
| 7                         | MILIND MADHUSUDAN DAFADE<br>S/o Sh. Madhusudan Gurinath Dafade<br>R/o Aishwaryam Appt., Flat C-31, Sec-4,<br>Plot<br>No. 17, Dwarka, New<br>Delhi-110078<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service | 09587967 | 100 Equity,0<br>Preference   | MILIND<br>MADHUSUDAN<br>DAFADE<br><small>Digitally signed by<br/>Milind Madhusudan<br/>Dafade<br/>DN: cn=Milind Madhusudan<br/>Dafade, o=PFC, ou=, email=, c=IN<br/>Date: 2024.01.11<br/>17:09:01 +05'30'</small> | 11/01/2024 |
| <b>Total shares taken</b> |                                                                                                                                                                                                                              |          | 10000 Equity,0<br>Preference |                                                                                                                                                                                                                   |            |

## Signed before me

| Membership type<br>of the witness<br>(ACA/FCA/ACS/FCS/<br>ACMA/FCMA) | *Name of the<br>witness | *Address,<br>Description and<br>Occupation                           | DIN / PAN /<br>Passport number /<br>Membership<br>number | DSC                                                                                                                                                                                         | Dated      |
|----------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------|----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| FCS                                                                  | Naresh Kumar<br>Sinha   | 121, Vinayak<br>Apartment,<br>C58/19, Sector-62,<br>Noida-201307, UP | 1807                                                     | NARESH<br>KUMAR<br>SINHA<br><small>Digitally signed by<br/>Naresh Kumar Sinha<br/>DN: cn=Naresh Kumar<br/>Sinha, o=PFC, ou=, email=, c=IN<br/>Date: 2024.01.11<br/>15:08:27 +05'30'</small> | 11/01/2024 |

7 Shri / Smt \_\_\_\_\_ Of \_\_\_\_\_ resident of \_\_\_\_\_  
aged \_\_\_\_\_ years shall be the nominee in the event of death of the sole member.



**Form No. INC-34****e-AOA (e-Articles of Association)**

[Pursuant to Section 5 of the Companies Act, 2013  
and rules made thereunder read with Schedule I]



Form language

☒ English☐ Hindi

Refer instruction kit for filing the form.

All fields marked in \* are mandatory

Table applicable to company as notified under schedule I of the Companies Act, 2013  
(F, G, H)

F

Table F / G / H (basis on the selection of above-mentioned field) as notified under schedule I of  
the companies Act, 2013 is applicable to

(F – a company limited by shares

G – a company limited by guarantee and having a share capital

H – a company limited by guarantee and not having share capital)

F - A COMPANY LIMITED BY  
SHARES

The name of the company is

PUNE- III TRANSMISSION  
LIMITED

| Check if not applicable  | Check if altered                    | Article No. | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                     |             | <b>Interpretation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |             | <ul style="list-style-type: none"> <li>1. Interpretation clause In the interpretation of these Articles unless repugnant to the subject or context- Act The Act means The Companies Act 2013 as amended from time to time and includes any statutory modification or re-enactment thereof for the time being in force. Articles of the Company Articles means the articles of association of a company as originally framed or as altered from time to time or applied in pursuance of any previous company law or of this Act. Auditor(s) Auditor(s) mean and include persons appointed as such for the time being by the Comptroller Auditor General of India. Board or Board of Directors Board or Board of Directors in relation to a company means the collective body of the directors of the company. Books of Account Books of account includes records maintained in respect of (i) all sums of money received and expended by a company and matters in relation to which the receipts and expenditure take place (ii) all sales and purchases of goods and services by the company (iii) the assets and liabilities of the company and (iv) the items of cost as may be prescribed under section 148 in the case of a company which belongs to any class of companies specified under that section. Capital Capital means the share capital for the time being raised or authorized to be raised for the purpose of the Company. Company Shall means PUNE- III TRANSMISSION LIMITED Debenture Debenture includes debenture stock bonds or any other instrument of a company evidencing a debt whether constituting</li> </ul> |





a charge on the assets of the company or not. Director(s) Director means a director appointed to the Board of a company under Section 2(34) of the Act. Dividend Dividend includes any interim dividend. Financial Institution Financial Institution includes a scheduled bank and any other financial institution defined or notified under the Reserve Bank of India Act 1934. Gender Words importing the masculine gender also include the feminine gender. Generation Company Generation Company shall mean any entity engaged in the business of generation of electricity. In Writing and Written In writing and Written include printing lithography and other modes of representing or reproducing words in a visible form. key managerial personnel key managerial personnel in relation to a company means (i) the Chief Executive Officer or the managing director or the manager (ii) the company secretary (iii) the whole-time director (iv) the Chief Financial Officer and (v) such other officer as may be prescribed. Meeting or General Meeting Meeting means Annual General Meeting or Extraordinary General Meeting of Members duly called and constituted including an adjourned meeting. In the context of Board of Directors it shall mean the meeting of the Directors including an adjourned meeting. Member Member in relation to a company means (i) the subscriber to the memorandum of the company who shall be deemed to have agreed to become member of the company and on its registration shall be entered as member in its register of members (ii) every other person who agrees in writing to become a member of the company and whose name is entered in the register of members of the company (iii) every person holding shares of the company and whose name is entered as a beneficial owner in the records of a depository. Month Month means a calendar month. Office Office means the Registered Office of the company for the time being. paid-up share capital or share capital paid-up means such aggregate amount of money credited as paid-up as is equivalent to the amount received as paid up in respect of shares issued and also includes any amount credited as paid-up in respect of shares of the company but does not include any other amount received in respect of such shares by whatever name called. Persons Persons include Corporations and firms as well as individuals. Power Transmission Utility Power Transmission Utility shall mean any entity engaged in the business of power transmission. Proxy Proxy includes Attorney duly constituted under a valid Power of Attorney. Project-In-Charge A Director of the Company designated as Project In-charge for administering day to day activities of the Company. Public Company Public Company means a company which a. is not a private company and b. has a minimum paid-up share capital as may be prescribed. Provided that a company which is a subsidiary of a company not being a private company shall be deemed to be public company for the purposes of this Act even where such subsidiary company continues to be a private company in its articles. Registrar Registrar means a Registrar an Additional Registrar a Joint Registrar a Deputy Registrar or an Assistant Registrar having the duty of registering companies and discharging various functions under this Act. Register of Members Register of Members means the Register of Members to be kept pursuant to the Act. Related Party Section 2(76) of the Act describes related party with reference to a company which means (i) a director or his relative (ii) a key managerial personnel or his relative (iii) a firm in which a director manager or his relative is a partner (iv) a private company in which a director or manager is a member or director (v) a public company in which a director or

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|  |  | <p>manager is a director or holds along with his relatives more than two per cent. of its paid-up share capital (vi) any body corporate whose Board of Directors managing director or manager is accustomed to act in accordance with the advice directions or instructions of a director or manager (vii) any person on whose advice directions or instructions a director or manager is accustomed to act Provided that nothing in sub-clauses (vi) and (vii) shall apply to the advice directions or instructions given in a professional capacity (viii) any company which is (A) a holding subsidiary or an associate company of such company or (B) a subsidiary of a holding company to which it is also a subsidiary (ix) such other person as may be prescribed. Seal Means the common seal of the company for the time being. Securities Exchange Board Securities and Exchange Board means the Securities and Exchange Board of India established under section 3 of the Securities Exchange Board of India Act 1992. Securities Securities means the securities as defined in clause (h) of section 2 of the Securities Contracts (Regulation) Act 1956. Share Means a share in the share capital of a company and includes stock. Share Capital Share Capital means the total equity share capital of the Company agreed to be issued and called the Authorized Capital of the Company as mentioned in the Memorandum of Association of the Company. Singular Number Words importing the singular number include where the context admits the plural number and vice-versa. State Electricity Board State Electricity Board means the Electricity Board or Vidyut Board or any other body by whatever name called set up by the State Governments under Electricity (Supply) Act 1948 as amended which expression shall include its successors administrators authorized representatives and permitted assigns. Transmission Company Transmission Company shall mean any entity engaged in the business of transmission of electricity. Year or Financial Year Meaning of Words Year means English calendar year and Financial Year shall have the meaning assigned thereto by Section 2(41) of the Act. Unless the context otherwise requires words or expressions contained in these regulations shall bear the same meaning as in the Act or any statutory modification thereof in force at the date at which these regulations become binding on the company. Marginal Notes Marginal Notes are for ease of reference only and shall not affect the construction and interpretation of these Articles. Other Expressions Other words or expressions contained in these Articles shall bear the same meaning as are assigned to them in the Act or any statutory modifications thereof. 2. Table F not to Apply The regulations contained in Table F in the First Schedule to the Companies Act 2013 shall not apply except to the extent that the same are repeated or contained or expressly made applicable by these Articles or by the Act but the regulations for the management of the Company and for the observance of the members thereof and their representatives shall subject to any exercise of the statutory powers of the Company with reference to the repeal or alteration of or addition to its regulations by Special Resolution as prescribed by the said Companies Act 2013 be such as contained in these Articles. BUSINESS PURPOSE 3. Business Purpose The Company shall be engaged in the business of Transmission of Electricity including construction operation maintenance and other related activities.</p> |
|  |  | <b>Share Capital and Variation of rights</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|  |  | <ul style="list-style-type: none"> <li>4. Share Capital Increase of capital by the Company and how carried</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



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| <input type="checkbox"/> | <input checked="" type="checkbox"/> |  | <p>into effect The Authorized Share Capital of the Company is as mentioned in clause V of the Memorandum of Association of the Company. The Company in General Meeting may from time to time by resolution increase its authorized share capital by creation of new shares such increase to be of such aggregate amount and to be divided into shares of such respective amounts as may be determined by the General Meeting subject to the provisions of the Act. 5. New Capital same as existing capital Any capital raised by the creation of new shares shall be considered as part of the original capital and shall be subject to the same provisions herein contained with reference to the payment of calls and installments forfeiture lien surrender transfer and transmission voting and otherwise. 6. Reduction of Capital The Company may from time to time by special resolution reduce its capital which may be paid off either with or without extinguishing or reducing liability on shares which is in excess of the wants of the company or canceling such share capital which has been lost or is unrepresented by available assets. 7. Subdivision and consolidation of shares The Company in general meeting may from time to time sub-divide or consolidate its shares or any of them and exercise any of the other powers conferred by Section 61 of the Act and shall file with the Registrar such notice of exercise of any such powers as may be required by the Act. 8. Register and Index of Members Beneficial owners The Company shall cause to be kept a Register and also an Index of Members and Debenture-holders in accordance with Sections 88 of the Act. Further as permissible under Section 88 of the Act the register and Index of beneficial owners maintained by a Depository shall be deemed to be the corresponding Register and Index for the purpose of this Act. 9. Foreign Register of members The Company shall be entitled to keep in any country outside India a Foreign Register of members resident in that country subject to compliance with the provisions of Section 88 of the Act. 10. Shares to be numbered distinctively The shares in the capital held otherwise than in the depository mode shall be numbered progressively in sequence and given distinctive number Except and in the manner herein mentioned no share shall be forfeited or surrendered and shall continue to bear the number which it had originally borne. 11. Share Application Money The Company shall ensure that the share application money paid is held by it in an account with a Scheduled Commercial Bank (in the name of the Company). 12. Further Issue of Capital (a) Where at any time the Company wishes to raise its subscribed share capital by issue of further shares it shall first offer such shares to its existing shareholders in proportion to their existing shareholdings on the date of such issue. Such offer to the existing shareholders shall be in accordance with the provisions of Section 62 of the Act. (b) The Company shall subject to applicable provisions of the Act and Articles of Association make uniform calls from time to time upon all the Shareholders in respect of the moneys remaining unpaid on the issued share capital within 30 days or such time as the Board may deem fit and appropriate. 13. Shares under control of Directors Subject to the provisions of these Articles and of the Act the shares including any shares forming part of any increased capital of the Company shall be under the control of the Directors who may allot or otherwise dispose off the shares to such persons in such proportion on such terms and conditions and at such times as the Directors may think fit and subject to the sanction of the Company in General Meeting subject to the provisions of Sections 52 and section 54 of the Act at a premium or par and such option being exercisable for such time and for such</p> |
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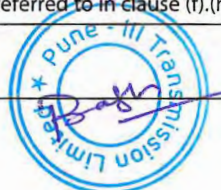
II 1

consideration as the Directors think fit. The Board shall cause to be filed the returns as to allotment provided for in Section 39(4) of the Act. 14. Issue of shares for consideration other than cash Subject to these Articles and the provisions of the Act if any the Board may issue and allot shares in the capital of the Company as payment or in consideration or as part payment or in part consideration of the purchase or acquisition of any property or for services rendered to the Company in the conduct of its business and shares which may be so issued or allotted shall be credited or deemed to be credited as fully paid up or partly paid up shares. 15. Power of Company to Issue Shares The Company in General Meeting may subject to the provisions of Section 42 62 of the Act provide that any shares (whether forming part of the original capital or of any increased capital of the Company) shall be offered to such persons (whether a Member or not) in such proportion and on such terms and conditions of the Act) at a premium or at par or at a discount as such General Meeting shall determine and with full power to give any person (whether a Member or not) the option to call for or be allotted shares of any class of the Company either subject to compliance with the provisions of Sections 52 and 54 of the Act at a premium or at par or at discount such option being exercisable at such times and for such consideration as may be directed by such General Meeting or the Company in General Meeting may make any other provisions whatsoever for the issue allotment or disposal of any shares. 16. Acceptance of shares Any person applying for shares in the Company followed by an allotment of any shares and subscribers to the Memorandum shall be a shareholder within the meaning of these Articles and every person whose name is on the Register of Members shall for the purposes of these Articles be a Member of the Company. 17. Deposit call to be a debt payable Immediately The Money (if any) which the Board shall on the application for allotment of any shares being made by them require or direct to be paid by way of deposit call or otherwise in respect of any shares allotted by them shall immediately on the insertion of the name of the allottee in the Register of Members as the name of the holder of such shares become a debt due to and recoverable by the Company from the allottee thereof and shall be paid by him accordingly. 18. Liability of Members Every Member or his heirs executors or administrators shall pay to the Company the portion of the capital and premium if any represented by or payable on his share or shares which may for the time being remain unpaid thereon in such amounts at such time or times and in such manner as the Board shall from time to time in accordance with the Company's regulations require or fix for the payment thereof. 19. Share Certificates A certificate issued under the common seal of the company specifying the shares held by any person shall be prima facie evidence of the title of the person to such shares. (a) Every Member or allottee of shares who is holding such shares in the physical form shall be entitled without payment to receive certificate specifying the name of the person in whose favour it is issued the shares to which it relates and the amount paid-up thereof. Such certificate shall be issued only in pursuance of a resolution passed by the Board and on surrender to the Company of the letter of allotment or the fractional coupon of requisite value save in case of issues against letters of acceptance or of renunciation or in cases of issue of bonus shares. Every such certificate shall be issued under the seal of the Company which shall be affixed in the presence of two Directors and the Secretary or some other person appointed by the Board for the purpose and the



two directors and the Secretary or other persons as authorized by the Board shall sign the share certificate. Provided if the composition of the Board permits of it at least one of the aforesaid two directors shall be a person other than a Managing or a Whole Time Director. Particulars of every share certificate issued shall be entered in the Register of Members against the name of the person to whom it has been issued indicating the date of issue. For issue of any further duplicate certificate the Board shall be entitled to charge such amount which shall not exceed fifty Rupees per Certificate. (b) A Director may sign a share certificate by affixing his signature thereon by means of any machine equipment or other mechanical means such as engraving in metal or lithography but not by means of a rubber stamp. PROVIDED that the Director shall be personally responsible for the safe custody of such machine equipment or other material used for the purpose.

20. Renewal of Share Certificates (a) No certificate of any share or shares shall be issued either in exchange for those which are sub-divided or consolidated or in replacement of those which are defaced mutilated torn or old decrepit destroyed or where the pages on the reverse for recording transfers have been duly utilized unless the certificate in lieu of which it is issued is surrendered to the Company and for issuing such share certificate the company may charge such fee as the Board thinks fit not exceeding twenty rupees per certificate. (b) When a new share certificate has been issued in pursuance of clause (a) of this Article it shall state on the face of it and against the stub or counterfoil to the effect that it is issued in lieu of share certificate No. and the word duplicate shall be stamped or printed prominently on the face of the share certificate. (c) If a share certificate is lost or destroyed a new certificate in lieu thereof shall be issued only with the prior consent of the Board and on such reasonable terms such as furnishing supporting evidence and indemnity and the payment of out-of-pocket expenses incurred by the Company in investigating evidence produced as the Board thinks fit. (d) When a new share certificate has been issued in pursuance of clause (c) of this Article it shall state on the face of it and against the stub or counterfoil to the effect that it is duplicate issued in lieu of share certificate No. and the word duplicate shall be stamped or printed prominently on the face of the share certificate. (e) Where a new share certificate has been issued in pursuance of clause (a) and or clause (c) of this Article particulars of every such share certificate shall be entered in a Register of Renewed and Duplicate Share Certificates indicating against the name(s) of the person(s) to whom the certificate is issued the number and date of issue of the share certificate in lieu of which the new certificate is issued and the necessary changes indicated in the Register of Members by suitable cross reference in the Remarks column. (f) All blank forms to be used for issue of share certificates shall be printed and the printing shall be done only on the authority of a resolution of the Board and the blank forms shall be consecutively machine-numbered and the forms and the blocks engravings facsimiles relating to the printing of such forms shall be kept in the custody of the Secretary or of such other person as the Board may appoint for the purpose and the Secretary or the other person aforesaid shall be responsible for rendering an account of these forms to the Board. (g) The Committee of the Board Company Secretary of the Company or a Director specifically authorized by the Board for such purposes shall be responsible for the maintenance preservation and safe custody of all books and documents relating to the issue of share certificates including the blank forms of share certificates referred to in clause (f). (h) All books referred to in clause



|                          |                                     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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|                          |                                     |   | <p>(g) shall be preserved in good order for not less than thirty years and in disputed cases shall be preserved permanently. 21. Joint holders (a) Where two or more persons are registered as the holders of any share they shall be treated as a single shareholder and shall be deemed to hold the same as joint holders with benefits of survivorship subject to the following and other provisions contained in these Articles. (b) The Company shall be entitled to decline to register more than four persons as the holders of any share. (c) The Joint holders of any share shall be liable severally as well as jointly for and in respect of all calls and other payments which ought to be made in respect of such shares. (d) On the death of any such joint holder the survivor or survivors shall be the only person or persons recognized by the Company as having any title to the share but the Directors may require such evidence of death as they may deem fit and nothing herein contained shall be taken to release the estate of the deceased joint holder from any liability on shares held by him jointly with any other person. (e) Delivery of share certificate to any one of such joint holders shall be deemed to be delivery to all of them and any one of such joint holders may give effectual discharge and receipts for any dividends or other moneys payable in respect of such shares and or in respect of any other obligation of the Company towards them. (f) Only the person whose name stands in the Register of Members as the first of the joint holders of any shares shall be entitled to delivery of the certificate relating to such share or to receive notices from the Company and any notice given to such person shall be deemed proper notice to all joint holders. (g) Any one of two or more joint holders may vote at any meeting either personally or by proxy in respect of such share as if he were solely entitled thereto and if more than one of such joint holders be present at any meeting personally or by proxy the holder whose name stands first or higher (as the case may be) on the Register of Members in respect of such shares shall alone be entitled to vote in respect thereof. PROVIDED always that a member present at any meeting personally shall be entitled to vote in preference to a person present by proxy although the name of such person present by proxy stands first on the Register of Members in respect of such shares. 22. Terms and Conditions of Preference Shares Subject to the provisions of section 55 any preference shares may with the sanction of an ordinary resolution be issued on the terms that they are to be redeemed on such terms and in such manner as the company before the issue of the shares may by special resolution determine.</p> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 2 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 4 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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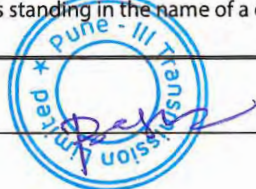
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|                          |                                     |    | <b>Lien</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 9  | <ul style="list-style-type: none"> <li>23. Company to have lien on sharesThe Company shall have a first and paramount lien upon allshares (other than fully paid up shares) registered in the name of each member(whether solely or jointly with others) and upon the sale proceeds thereof for all moneys (whether presently payable or not) called or payable at a fixed timein respect of all such shares (not being fully paid up) for all moneyspresently payable by him or his estate to the Company. Any such lien shallextend to all dividends payable and bonuses declared from time to time declaredin respect of such shares.24. Enforcing lien by saleFor the purpose of enforcing such lien the Board may sellthe shares subject thereto in such manner as they shall think fit and for thatpurpose it may cause to be issued a duplicate certificate in respect of suchshares and may authorize one of their Directors to execute a transfer thereofon behalf of and in the name of the Board. No sale shall be made until noticeperiod for making call as aforesaid have expired and until notice in writing ofthe intention to sell shall have been made known to the shareholder for defaultin payment and default has been made by him in the payment of money called inrespect of such shares for thirty days after the date of such notice. Uponissue of a duplicate certificate or certificates in lieu of the original sharethe certificate or certificates originally issued shall stand cancelled andbecome null and void and the same shall have no effect.25. Application of proceeds of sale The net proceeds of any such sale shall be received by theCompany and applied in or towards payment of such part of the amount as ispresently payable and the residue if any shall (subject to a like lien forsums not presently payable as existed upon the shares before sale) be paid tothe person entitled to the shares at the date of the sale.</li> </ul> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 10 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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|                          |                                     |    | <b>Calls on shares</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |    | <ul style="list-style-type: none"> <li>26. Directors may make callsThe Board may from time to time subject to the terms onwhich any shares may have been issued and subject to the conditions ofallotment by a resolution passed at a meeting of the Board (and not byresolution by circulation) make such call as it thinks fit upon the Members inrespect of all moneys unpaid on the shares held by them respectively and eachmember shall pay the amount of every call so made on him to the person orpersons and at the times and places appointed by the board. A call may be made payable by installments.27. Notice of callsNot less than thirty days notice in writing of any callshall be given by the Company specifying the time and place of payment and theperson or persons to whom such call shall be paid.28. When call madeA call shall be deemed to have been made at the time when the resolution of the Board authorizing such call was passed at a meeting ofthe Board and demand notice is issued.29. Calls may be</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



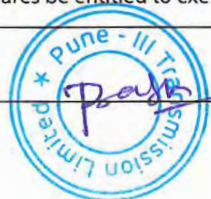
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|                          |                                     | 13 | <p>revoked or postponed A call may be revoked or postponed at the discretion of the Board. 30. Directors may extend time The Board may from time to time at its discretion extend the time fixed for the payment of any call and may extend such time as to all or any of the Members for reasons which the Board may consider satisfactory but no Member shall be entitled to such extension save as a matter of grace. 31. Calls to carry interest If any Member fails to pay any call due from him on the day appointed for payment thereof or any such extension thereof as aforesaid he shall be liable to pay interest on the same from the day appointed for the payment thereof to the time of actual payment at rate not exceeding 10 per cent per annum as may be decided by the Board but the Board may in its absolute discretion and in special circumstances waive or reduce the levy of interest as deemed appropriate. 32. Sums deemed to be call Any sum which by the terms of issue of a share becomes payable on allotment or at any fixed date whether on account of the nominal value of the share or by way of premium shall for the purposes of these Articles be deemed to be a call duly made and payable on the date on which by the terms of issue the same becomes payable and in case of non-payment all the relevant provisions of these Articles as to payment of interest and expenses for forfeiture or otherwise shall apply as if such sum had become payable by virtue of a call duly made and notified. 33. Partial payment not to preclude Forfeiture Neither the receipt by the Company of a portion of any money which shall from time to time be due from any Member to the Company in respect of his shares either by way of principal or interest nor any indulgence granted by the Company in respect of the payment of any such money shall preclude the Company from thereafter proceeding to enforce a forfeiture of such shares as hereinafter provided. 34. Payment in anticipation of calls may carry interest The Board may if it thinks fit agree to and in anticipation receive from any Member willing to advance the same all or any part of the amounts of his respective shares beyond the sums actually called up and upon the moneys so paid in advance or upon so much thereof from time to time and at any time thereafter as exceeds the amount of the calls then made upon and due in respect of the shares on account of which such advances are made the Board may pay or allow interest at such rate as the Member paying the sum in advance and the Board agree upon. The Board may agree to repay at any time any amount so advanced or may at any time repay the same upon giving to the Member three months notice in writing. PROVIDED that moneys paid in advance of calls on any shares may carry interest but shall not confer a right to dividend or to participate in profits. (b) No Member paying any such sum in advance shall be entitled to voting rights in respect of the moneys so paid by him until the same would but for such payment become presently payable.</p> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 14 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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|                          |                                     |    | <b>Transfer of shares</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 19 | <ul style="list-style-type: none"> <li>35. Register of TransfersThe Company shall maintain a Register of Transfers andtherein shall be fairly and distinctively enter the particulars of everytransfer or transmission of any share in the physical form.36. Form of transferThe instrument of transfer shall be in writing and in suchform as prescribed under the Act. All the provisions of Section 56 of the Actshall be duly complied with in respect of all transfers and of the registrationthereof. The Company shall not charge any fee for registration of a transfer ofshares or debentures.37. Instrument of Transfer to be completed and presented tothe CompanyThe Instrument of Transfer duly stamped and executed by thetransferor and the transferee shall be delivered to the Company in accordancewith the provisions of the Act. The instrument of transfer shall be accompaniedby the Share Certificate or such evidences the Board may require to prove thetitle of transferor and his right to transfer the shares and every registeredInstrument of Transfer shall remain in the custody of the Company untildestroyed by order of the Board. Any instrument of transfer which the Directorsmay decline to register shall be returned to the person depositing the same.38. Transferor deemed to be holderThe transferor shall be deemed to be the holder of suchshares until the name of the transferee shall have entered in the Register ofMembers in respect thereof. Before the registration of a transfer thecertificate or certificates of the shares must be delivered to the Companyalong with Transfer Deed.39. No transfer to insolvent etc.No transfer shall be made to a person of unsound mind or toan insolvent.40. Closure of Register of MembersDebenture holdersThe Directors shall have power on giving not less thanseven days previous notice as required by Section 91 of the Act to close theRegister of Transfer Register of Members or Register of Debenture holders orthe register of other security holders of the Company for any period or periodsnot exceeding in the aggregate forty-five days in each year (but not exceedingthirty days at any one time) as they may determine.41. Nomination by shareholderEvery share-holder or debenture holder may at any timenominate in the prescribed manner a person to whom his shares or debentureshall vest in the event of his death as provided in Section 72 of the Act.42. Title to shares of deceased holderIn the event there is no nomination the executors oradministrators of a deceased Member or the holder of a Succession Certificatein respect of the shares of a deceased Member (not being one of two or morejoint holders) shall be the only persons whom the Company will be bound torecognize as having any title to the shares registered in the name of suchMember and the Company shall not be bound to recognize such executors oradministrators or holders unless such executors administrators or holders shallhave first obtained probate or Letters of Administration or SuccessionCertificate as the case may be from a duly constituted Court in India. PROVIDED that the Directors may at their absolutediscretion dispense with production of Probate Letters of Administration orSuccession Certificate upon such terms as to indemnity or otherwise as theythink fit and may enter the name of the person who claims to be absolutelyentitled to the shares standing in the name of a deceased Member as a Member.</li> </ul> |



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|                          |                                     |    | <b>Transmission of shares</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 23 | <ul style="list-style-type: none"> <li>43. Transmission of Shares Subject to the provisions of the Act any person becoming entitled to any share in consequence of the death lunacy or insolvency of any Member or by any lawful means other than by a transfer in accordance with these Articles may with the consent of the Directors (which they shall be under no obligation to give) and upon producing such evidence that he sustains the character in respect of which he proposes to act under this Article or of his title as the Directors may require and upon such indemnity as the Directors may require either be registered as a Member in respect of such shares or elect to have some person nominated by him and approved by the Directors registered as a Member in respect of such shares. PROVIDED that if such person shall elect to have his nominee registered he shall testify his election by executing in favor of his nominee an instrument of transfer in accordance with these Articles and until he does so he shall not be freed from any liability in respect of such shares. 44 Right of Board to decline or suspend registration (i) Any person becoming entitled to a share in consequence of the death or insolvency of a member may upon such evidence being produced as may from time to time properly be required by the Board and subject as hereinafter provided elect either --(a) to be registered himself as holder of the share or (b) to make such transfer of the share as the deceased or insolvent member could have made. (ii) The Board shall in either case have the same right to decline or suspend registration as it would have had if the deceased or insolvent member had transferred the share before his death or insolvency. 45. The Company not liable for disregard of notice prohibiting registration of transfer The Company shall incur no liability or responsibility whatever in consequence of its registering or giving effect to any transfer of shares made or purported to be made by any apparent legal owner thereof (as shown or appearing in register of Members) to the prejudice of persons having or claiming any equitable right title or interest to or in the same shares notwithstanding that the Company may have had notice of such equitable right title or interest or notice prohibiting registration of such transfer and may have entered such notice or referred to it in any book or attended or given effect to any notice which may have been given to it of any equitable right title or interest or be under any liability whatsoever for refusing or neglecting so to do though it may have been entered or referred to in some book of the Company but the Company shall nevertheless be at liberty to regard and attend to any such notice and give effect thereto if the Directors shall so think fit. 46. Rights of successors A person becoming entitled to a share by reason of the death or insolvency of the holder shall be entitled to the same dividends and other advantages to which he would have been entitled if he were the registered holder of the shares except that he shall not before being registered as a Member in respect of the shares be entitled to exercise any right conferred by membership in</li> </ul> |





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|                          |                                     |    | relation to meetings of the Company. PROVIDED that the Director shall at any time give notice requiring any such person to elect to be registered himself or to transfer the shares and if the notice is not complied within ninety days from the date of issue of the notice the Directors may thereafter withhold payment of all dividends bonuses or other moneys payable in respect of the shares until the requirements of the notice have been complied with.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|                          |                                     |    | <b>Forfeiture of shares</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |    | <ul style="list-style-type: none"> <li>47. If money payable on shares not paid notice to be given to members if any Member fails to pay any call or installment of a call on or before the day appointed for the payment of the same or any such extension thereof as aforesaid the Board may at any time thereafter during such time as any part of the call or installment remains unpaid serve a notice on him requiring him to pay the same together with any interest which may have accrued and all expenses that may have been incurred by the Company by reason of such non-payment.</li> <li>48. Contents of Notice The notice shall name a further day (not being less than fourteen days from the date of the service of notice) and a place or places on and at which such call or installment and such interest thereon at such rate as the Directors shall determine from the day on which such call or installment ought to have been paid and expenses as aforesaid are to be paid. The notice shall also state that in the event of the non-payment on or before the day or before the time and at the place appointed the shares in respect of which the call was made or installment is payable shall be liable to be forfeited.</li> <li>49. In default of payment shares to be Forfeited If the requirement of any such notice as aforesaid are not complied with every or any share in respect of which such notice has been given may at any time thereafter but before payment of all calls or installments interest and expenses due in respect thereof be forfeited by a resolution of the Board to that effect. Such forfeiture shall include all dividends declared or any other moneys payable in respect of the aforesaid share and not actually paid before the forfeiture. In default of payment shares to be Forfeited</li> <li>50. Notice of forfeiture to a Member When any share shall have been so forfeited notice of the forfeiture shall be given to the Member in whose name it stood immediately prior to the forfeiture and an entry of the forfeiture with the date thereof shall forthwith be made in the Register of Members but no forfeiture shall be in any manner invalid by any omission or neglect to make any such entry as aforesaid in the Register.</li> <li>51. Forfeited share to be property of the Company and may be sold etc. Any share so forfeited shall be deemed to be the property of the Company and may be sold or otherwise disposed of either to the original holder thereof or to any person upon such terms and in such manner as the Board shall think fit.</li> <li>52. Member still liable to pay calls owing at the time of forfeiture and</li> </ul> |



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|                          |                                     | 28 | <p>interestAny members whose shares have been forfeited shall notwithstanding the forfeiture be liable to pay and shall forthwith pay to the Company on demand all calls installment interest and expenses owing upon or in respect of such shares at the time of the forfeiture together with interest accrued thereon at the time of the forfeiture at such rate as the Board may determine and the Board may enforce the payment thereof if it thinks fit.53. Effect of forfeitureThe forfeiture of a share shall involve extinction at the time of the forfeiture of all interest in and all claims and demands against the Company in respect of the share and all other rights incidental to the share except only such of those rights as by these Articles are expressly saved.54. Evidence of forfeitureA declaration in writing by Chairman or Managing Director of the Company or by any person duly authorised in this regard that certain shares in the Company have been duly forfeited on a date stated in the declaration shall be conclusive evidence of the facts therein stated as against all persons claiming to be entitled to the shares and such declaration and the receipt of the Company for the consideration if any given for the shares on the sale or disposition thereof shall constitute a good title to such shares and the person to whom the shares are sold shall be registered as the holder of such shares and shall not be bound to see as to the application of the purchase money nor shall his title to such shares be affected by any irregularity or invalidity in the proceedings in reference to such forfeiture sale or disposition.55. Validity of sale under Articles of forfeited sharesUpon any sale after forfeiture or for enforcing a lien in purported exercise of the powers herein before given the board may appoint some person to execute an instrument of transfer of the shares sold and cause the purchasers name to be entered in the Register of Members in respect of the shares sold and the purchaser shall not be bound to see the regularity of the proceedings or to the application of the purchase money and after his name has been entered in the Register in respect of such shares the validity of the sale shall not be impeached by any person and the remedy of any person aggrieved by the sale shall be in damages only and against the Company exclusively.56. Cancellation of Share Certificates in respect of forfeited sharesUpon any sale re-allotment or other disposal under the provisions of the preceding Articles the certificate or certificates originally issued in respect of the relative shares shall (unless the same shall on demand by the Company have been (previously) surrendered to it by the defaulting member) stand cancelled and become null and void and of no effect and the Directors shall be entitled to issue a duplicate certificate or certificates in respect of the said shares to the person or persons entitled thereto.57. Power to annul forfeiture The Board may at any time before any share so forfeited shall have been sold re-allotted or otherwise disposed of annul the forfeiture thereof upon such terms and conditions as it thinks fit.</p> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 29 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 31 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 32 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |





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| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 33 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 34 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                          |                                     |    | <b>Alteration of capital</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 35 | <ul style="list-style-type: none"> <li>58. Alteration of Share Capital The company may from time to time by ordinary resolution increase the share capital by such sum to be divided into shares of such amount as may be specified in the resolution. Subject to the provisions of section 61 the company may by ordinary resolution the Company may from time to time--(a) consolidate and divide all or any of its share capital into shares of larger amount than its existing shares (b) convert all or any of its fully paid-up shares into stock and reconvert that stock into fully paid-up shares of any denomination (c) Sub-divide its shares or any of them into shares of smaller amount than is fixed by the memorandum so however that in the sub-division the proportion between the amount paid and the amount if any unpaid on each reduced share shall be the same as it was in the case of the share from which the reduced share is derived. (d) Cancel any shares which as the date of the passing of the resolution have not been taken or agreed to be taken by any person and diminish the amount of its share capital by the amount of the shares so cancelled. The resolution whereby any share is sub-divided may determine that as between the holders of the shares resulting from such sub-division one or more of such shares shall have some preference or special advantage as regards dividend capital voting or otherwise over or as compared with the others or other subject to the provisions of the Act. Subject to the provisions of Sections 66 of the Act the Board may accept from any member the surrender on such terms and conditions as shall be agreed of all or any of his shares. The company may by special resolution reduce in any manner and with and subject to any incident authorised and consent required by law--(a) its share capital (b) any capital redemption reserve account or (c) any share premium account.</li> </ul> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 36 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 37 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 38 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                          |                                     |    | <b>Capitalisation of profits</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |    | <ul style="list-style-type: none"> <li>59. Capitalization of Profits (1) Any General Meeting of the Company may resolve that any amounts standing to the credit of the Free Reserve or Share Premium Account or the Capital Redemption Reserve Account or any moneys investment or other assets forming part of the undivided profits including profits or surplus moneys arising from the realization and (when permitted by the law) from the appreciation in value of any capital assets of the Company standing to the credit of the General Reserve or any other Reserve or Reserve Fund or any other Fund of the Company or in the hands of the Company and available for dividend be capitalized--(a) by the issue and distribution of shares as fully paid-up and to the extent permitted by the Act debentures debenture stock bonds or other</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



39

obligations of the Company or (b) by crediting share of the Company which may have been issued and are not fully paid-up with the whole or any part of the sum remaining unpaid thereon PROVIDED that any amounts standing to the credit of the Share Premium Account or the Capital Redemption Reserve Account shall be applied only in crediting the payment of capital on shares to be issued to Members as fully paid bonus shares (Further capitalization of reserve created by the revaluation of assets are not to be used for issuance of Bonus Shares as per section 63 of the Act).

(2) Such issue and distribution under sub-clause (1) (a) of this Article and payment to the credit of unpaid share capital under sub-clause (1) (b) of this Article shall be made among and in favour of the Members or any class of them or any of them entitled thereto and in accordance with their respective rights and interests and in proportion to the amount of capital paid-up on the shares held by them respectively in respect of which such distribution or payment shall be made on the footing that such Members become entitled thereto as capital.

(3) The Directors shall give effect to any such resolution and for the said purpose the Board may settle any difficulty which may arise in regard to distribution as it thinks expedient including in regard to fractional entitlements and shall apply such profits General Reserve other Reserve or any other Fund or account as aforesaid as may be required for the purpose of making payment in full on the shares or other obligations of the Company so distributed under sub-clause (1) (a) of this Article or (as the case may be) for the purpose of paying in whole or in part the amount remaining unpaid on the shares which may have been issued and are not fully paid-up under sub-clause (1) (b) above. PROVIDED that no such distribution or payment shall be made unless recommended by the Directors and if so recommended such distribution and payment shall be accepted by such Members as aforesaid in full satisfaction of their interest in the said capitalized fund.

(4) For the purpose of giving effect to any such resolution the Directors may settle any difficulty which may arise in regard to the distribution or payment as aforesaid as they think expedient and in particular they may issue fractional certificates and may fix the value for distribution of any specific asset and may determine that any cash payment be made to any Members on the footing of the value so fixed and may vest any such cash shares debentures stock bonds or other obligations in trustees upon such trusts for the persons entitled thereto as may seem expedient to the directors and generally may make arrangement for the acceptance allotment and sale of such shares debentures debentures stock bonds or other obligations and fractional certificates or otherwise as they may think fit.

(5) When deemed requisite a proper contract shall be filed in accordance with the Act and the Board may appoint any person to sign such contract on behalf of the Members entitled as aforesaid. Subject to the provisions of the Act and these Articles in cases where some of the shares of the Company are fully paid and others are partly paid such capitalization may be effected by the distribution of further shares in respect of the fully paid shares and by crediting the partly paid shares with the whole or part of the unpaid liability thereon but so that as between the holders of the fully paid shares and the partly paid shares the sums so applied in the payment of such further shares and in the extinguishment or diminution of the liability on the partly paid shares shall be applied prorata in proportion to the amount then already paid or credited as paid on the existing fully



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|--------------------------|-------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                     |    | paid and partly paid shares respectively.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 40 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                          |                                     |    | <b>Buy-back of shares</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 41 | <ul style="list-style-type: none"> <li>60. Buy Back of Shares Notwithstanding anything contained in these articles but subject to the provisions of sections 68 to 70 and any other applicable provision of the Act or any other law for the time being in force the company may purchase its own shares or other specified securities.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                          |                                     |    | <b>General meetings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 42 | <ul style="list-style-type: none"> <li>61. Annual General Meeting The Company shall in each year hold a General Meeting as its Annual General Meeting in addition to any other meeting in that year. All General Meetings other than Annual General Meetings shall be called Extraordinary General Meetings. If for any reason beyond the control of the Board the general meeting (including an Annual General meeting) cannot be held on the appointed day the Board shall have power to postpone the General meeting of which a notice should be given to the members. Every member of the Company shall be entitled to attend either in person or by proxy and the Auditor of the Company shall have the right to attend and to be heard at any General Meeting which he attends on any part of the business which concerns him as Auditor.</li> <li>62. Extraordinary General Meeting The Board may whenever it thinks fit call an Extraordinary General Meeting of the Company. The Board shall at the requisition in writing by a Member or Members holding in the aggregate not less than one-tenth of such of the paid-up capital of the company on that date and carries the right of voting in regard to the matter in respect of which the requisition has been made.</li> <li>63. Requisition of Members to state object of Meeting Any valid requisition so made by Members must state the object or objects of the meeting proposed to be called and must be signed by the requisitionists and deposited at the registered office of the company. PROVIDED that such requisition may consist of several documents in like form each signed by one or more requisitionists.</li> <li>65. On receipt of requisition Directors to call meeting and in default requisitionists may do so Upon the receipt of any such requisition the Board shall forthwith call an Extraordinary General Meeting and if they do not proceed within twenty-one days from the date of the requisition being deposited at the Registered Office to cause a meeting to be called on a day not later than forty-five days from the date of deposit of the requisition there requisitionists or such of their number as represent either a majority in value of the paid-up share capital held by all of them or one-tenth of such of the paid-up share capital of the Company as is referred to in Section 100(2) of the Act whichever is less may themselves call the meeting but in either case any meeting so called shall be held within three months from the date of the deposit of the requisition as aforesaid.</li> <li>66. Meeting called by requisitionists Any meeting called under the foregoing Articles by the requisitionists shall be called in the same manner as nearly as possible as that in which meetings are to be called by the Board.</li> <li>67. Twenty-one days notice of meeting to be given A general meeting of a Company may be called by giving not less than clear twenty-one days notice either</li> </ul> |

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|                          |                                     |    | <p>in writing or through electronic mode in such a manner as may be prescribed Every notice of a meeting shall specify the place date day and the hour of meeting and shall contain statement of the business to be transacted at such meeting. And The notice of every meeting shall be given to every member of the Company Legal Representative of any deceased member or the assignee of an insolvent member auditor or auditors of the Company and every director of the Company and all such persons as are under these Articles entitled to receive notice from the Company Provided that a general meeting may be called after giving shorter notice than that specified in this sub-section if consent in writing or by electronic mode is accorded thereto (i) in the case of an annual general meeting by not less than ninety-five per cent. of the members entitled to vote thereat and (ii) in the case of any other general meeting by members of the company (a) holding if the company has a share capital majority in number of members entitled to vote and who represent not less than ninety-five per cent. of such part of the paid-up share capital of the company as gives a right to vote at the meeting or (b) having if the company has no share capital not less than ninety-five per cent. of the total voting power exercisable at that meeting Provided further that where any member of a company is entitled to vote only on some resolution or resolutions to be moved at a meeting and not on the others those members shall be taken into account for the purposes of this sub-section in respect of the former resolution or resolutions and not in respect of the latter..</p>                                                                                                                                                                    |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 43 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                          |                                     |    | <b>Proceedings at general meetings</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |    | <ul style="list-style-type: none"> <li>• 68. Business to be transacted at the General Meeting and nature thereof In the case of an Annual General Meeting all business to be transacted thereat shall be deemed special other than (i) the consideration of the financial statements and the reports of the Board of Directors and Auditors (ii) the declaration of any dividend (iii) the appointment of Directors in place of those retiring (iv) the appointment of and the fixing of the remuneration of the Auditors and in the case of any other meeting all business shall be deemed to be Special Business and there shall be annexed to the notice of the Meeting an Explanatory statement setting out all material facts concerning each such item of special business including in particular the nature of the concern or interest financial or otherwise if any therein of (i) every Director and the Manager (if any) (ii) every other key managerial personnel and relatives of the persons mentioned in sub clauses (i) and (ii). Where any such item of Special Business relates to or affects any other company the extent of shareholding interest in such other company of every promoter director and the manager if any and of every other key managerial personnel of the Company shall also be set out in the statement if the extent of such shareholding interest is not less than two per cent of the paid-up share capital of that other company and where any item of business consists of the according of approval to any documents by the meeting the time and place where the document can be inspected shall be specified in the statement aforesaid. The annual general meeting shall be called during business hours on any day that is not a National Holiday and it is to be held either at the registered office of the company or at</li> </ul> |



some other place within the city in which the registered office of the company is situate. 69. Omission to give notice not to invalidate a resolution passed. The accidental omission to give any such notice as aforesaid to any of the Members or the non-receipt thereof shall not invalidate any resolution passed at any such meeting. 70. Meeting not to transact business not mentioned in notice. No General Meeting Annual or Extraordinary shall be competent to enter upon discuss or transact any business which has not been mentioned in the notice or notices upon which it was convened. 71. Body Corporate deemed to be personally present. A body corporate being a Member shall be deemed to be personally present if it is represented in accordance with Section 113 of the Act. 72. Quorum at General Meeting. No business shall be transacted at any general meeting unless a quorum of members is present at the time when the meeting proceeds to business. Save as otherwise provided herein the quorum for the general meetings shall be as provided in section 103 of the Companies Act 2013. 73. If quorum not present meeting to be dissolved or adjourned. If at the expiration of half an hour from the time appointed for holding a general meeting of the Company a quorum is not present the meeting if convened by or upon the requisition of Members shall stand dissolved but in any other case the meeting shall stand adjourned to the same day in the next week or if that day is a public holiday until the next succeeding day which is not a public holiday at the same time and place or to such other day and at such other time place as the Board may determine and if at such adjourned meeting a quorum is not present at the expiration of half an hour from the time appointed for holding the meeting the Members present shall form the quorum and may transact the business for which the meeting was called. 74. Chairman of General Meeting. The Chairman of the Board shall be entitled to take the Chair at every General Meeting whether Annual or Extraordinary. If at any meeting the Chairman is not present within fifteen minutes of the time appointed for holding such meeting or he has informed that he shall be unable or unwilling to take the Chair then any one of directors with mutual consent shall so preside at the meeting. If no Director be present or if all the Directors present decline to take the Chair then the Members present shall elect one of the members to be the Chairman of the Meeting. 75. No Business whilst chair vacant. No business shall be discussed at any General Meeting except the election of a Chairman whilst the Chair is vacant. 76. Chairman with consent may adjourn meeting. The Chairman with the consent of the Members may adjourn any meeting from time to time and from place to place within the city town or village in which the Registered Office of the Company is situated but no business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. Notwithstanding the provision as above in the event of disorder at a validly convened meeting the Chairman may adjourn the meeting provided that such an adjournment shall not be a longer period than the Chairman considers necessary to bring order at the meeting and Chairman communicates his decision to those present in so far as it is possible. 77. Questions at General Meeting how Decided. Every question submitted to a meeting shall be decided in the first instance unless a poll is demanded on a show of hands. Before or on the declaration of the result of the voting on any resolution on a show of hands a poll may be ordered to be taken by the Chairman of the meeting on his own motion and shall be ordered to be taken



by him on a demand made in that behalf by any member or members present in person or by proxy and holding shares in the Company which confer a power to vote on the resolution not being less than one-tenth of the total voting power in respect of the Resolution on which an aggregate sum of not less than five lakh rupees has been paid up. The demand for a poll may be withdrawn at any time by the person or persons making the demand. Unless a poll is so demanded a declaration by the Chairman that a resolution has on show of hands been carried through unanimously or by a particular majority or lost and an entry to that effect in the Minutes Book of the Company shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against the resolution. 78. Chairman's Casting Vote In the case of an equality of votes the Chairman shall have a casting vote in addition to the vote or votes to which he may be entitled otherwise. 79. Poll to be taken if demanded If a poll is demanded as aforesaid the same shall be taken at such time (not later than forty-eight hours from the time when the demand was made) and place in the city or town in which the Registered office of the Company is for the time being situated as the Chairman shall direct either at once or after an interval or adjournment and the result of the poll shall be deemed to be the resolution of the meeting. 80. In which case poll taken without Adjournment Any poll duly demanded on the election of the Chairman of a meeting or on any question of adjournment shall be taken at the meeting forthwith. 81. Demand for poll not to prevent transaction of other business The demand for a poll except on the questions of the election of the Chairman and of an adjournment shall not prevent the continuance of a meeting for the transaction of any business other than the question on which the poll has been demanded. 82. Minutes of General Meetings (a) The Company shall cause minutes of the proceedings of every General Meeting or every resolution passed by postal ballot to be kept by making within thirty days of the conclusion of every such meeting concerned record thereof kept with Minute Book for that purpose with their pages consecutively numbered. (b) Each page of every such book shall be initialed or signed and the last page of the record of proceedings of each meeting in such book shall be dated and signed by the Chairman of the same meeting within the aforesaid period of thirty days or in the event of the death or inability of that Chairman within that period by a Director duly authorised by the Board for the purpose. (c) In no case the minutes of proceedings of a meeting shall be attached to any such book as aforesaid by pasting or otherwise. (d) The minutes of each meeting shall contain a fair and correct summary of the proceedings thereat. (e) All decisions taken and appointments of officers made at any meeting aforesaid shall be included in the minutes of the meeting. (f) Nothing herein contained shall require or be deemed to require the inclusion in any such minutes of any matter which in the opinion of the Chairman of the meeting (a) is or could reasonably be regarded as defamatory of any person or (b) is irrelevant or immaterial to the proceedings or (c) is detrimental to the interests of the Company. The Chairman of the meeting shall exercise an absolute discretion in regard to the inclusion or non-inclusion of any matter in the minutes on the aforesaid grounds. (g) Any such minutes shall be evidence of the proceedings recorded therein. Where the minutes have been kept in accordance with section then until the contrary is proved the meeting shall be deemed to have been duly called and held all appointments of directors key managerial personnel auditors or



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|                          |                                     |    | <p>company secretary in practice shall be deemed to be valid. No document purporting to be a report of the proceedings of any general meeting of a company shall be circulated or advertised at the expense of the company unless it includes the matters required to be contained in the minutes of the proceedings of such meeting. The company shall observe secretarial standards with respect to general and Board meetings specified by the Institute of Company Secretaries of India constituted under section 3 of the Company Secretaries Act 1980 and approved as such by the Central Government. (h) The book containing the minutes of the proceedings of any general meeting of the Company or of a resolution passed by postal ballot shall be kept at the registered office of the Company and shall be open during business hours to the inspection by any member without any charge for such period not being less than two hours in each business day are allowed for inspection.</p>                                                                           |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 45 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 46 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 47 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 48 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                          |                                     |    | <b>Adjournment of meeting</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 49 | <ul style="list-style-type: none"> <li>83. Adjournment of Meeting (i) The Chairperson may with the consent of any meeting at which a quorum is present and shall if so directed by the meeting adjourn the meeting from time to time and from place to place. (ii) No business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. (iii) When a meeting is adjourned for thirty days or more notice of the adjourned meeting shall be given as in the case of an original meeting. (iv) Save as aforesaid and as provided in section 103 of the Act it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.</li> </ul>                                                                                                                                                                                                                                                                                                 |
|                          |                                     |    | <b>Voting rights</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |    | <ul style="list-style-type: none"> <li>84. Members in arrears not to vote No member shall be entitled to vote either personally or by proxy at any General Meeting or Meeting of a class of shareholders either upon a show of hands or upon a poll in respect of any shares registered in his name on which any calls or other sums presently payable by him have not been paid or in regard to which the Company has exercised any right of lien. 85. Number of votes to which Member Entitled Subject to the provisions of these Articles and without prejudice to any special privileges or restrictions as to voting for the time being attached to any class of shares for the time being forming part of the capital of the Company every Member shall be entitled to be present and to speak and vote at such meeting by show of hand for which the Member present in person shall have one vote. On a poll taken at a meeting of a company a member entitled to more than one vote or his proxy need not to use all his votes or cast in the same way all the</li> </ul> |

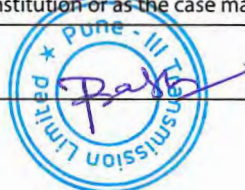
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|--------------------------|-------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                     | 50 | <p>votes he uses.86. Votes by a Member entitled to more than one voteOn a poll taken at a meeting of the Company a Memberentitled to more than one vote by virtue of his share-holding or his proxy orother person entitled to vote for him as the case may be need not if hevotes use all his votes or cast in the same way all the votes he uses and hemay vote in different manner as he deems fit.87. Vote of Member who is a minorif any shareholder be a minor the vote in respect of hisshare or shares shall be by his guardian or any one of his guardians if morethan one to be selected in case of dispute by the Chairman of the meeting.88. Votes of Joint Membersif there be joint registered holders of any shares the voteof the senior who tenders a vote whether in person or by proxy shall beaccepted to the exclusion of the votes of the other joint holders. For thispurpose seniority shall be determined by the order in which the names stand inthe register of members.89. Voting in person or by proxy or RepresentativeSubject to the provisions of these Articles votes may begiven either personally or by proxy. A body corporate being a Member may voteeither by proxy or by a representative duly authorised in accordance withSection 113 of the Act and such representative shall be entitled to exercisethe same rights and powers (including the right to vote by proxy) and by postalballot on behalf of the body corporate which he represents as that body couldexercise if it were an individual Member of the Company.90. Votes in respect of shares of DeceasedAny person entitled under the Transmission Clause tottransfer any shares may vote at any General Meeting in respect thereof in thesame manner as if he were the registered holder of such shares. PROVIDED thatforty-eight hours at least before the time of holding the meeting or adjournedmeeting as the case may be at which he proposes to vote he shall satisfy theChairman of his right to transfer such shares and give such indemnity (if any)as the Chairman may require or the Chairman shall have previously admitted hisright to vote at such meeting in respect thereof.91. Time for objection to voteNo objection shall be made to the validity of any voteexcept at the meeting or poll at which such vote was tendered and every votewhether given personally or by proxy not disallowed at such meeting or pollshall be deemed valid for purposes of such meeting or poll whatsoever.92. Chairman of the meeting to be the judge of the validityof any VoteThe Chairman of any meeting shall be the sole judge of thevalidity of every vote tendered at such meeting. The Chairman present at thetaking of a poll shall be the sole judge of the validity of every vote tenderedat such poll.</p> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 51 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 52 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 53 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 54 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 55 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 56 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |



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|                          |                                     |    | <b>Proxy</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |    | <ul style="list-style-type: none"> <li>93. Appointment of proxy A person can act as proxy on behalf of members not exceeding fifty and holding in the aggregate not more than ten percent of the total share capital of the company carrying voting rights. Provided that a member holding more than ten percent of the total share capital of the Company carrying voting rights may appoint a single person as proxy and such person shall not act as proxy for any other person or shareholder. Every proxy shall be appointed in writing under the hand of the Member or if such Member is a body corporate under the common seal of such corporation or be signed by an appointer or his attorney duly authorised in writing. The proxy so appointed shall not have any right to speak at the meetings. 94. Deposit of instrument of Proxy etc. The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarized copy of that power or authority shall be deposited at the Registered Office of the Company not later than forty-eight hours before the time for holding the meeting at which the person named in the instrument proposes to vote and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of twelve months from the date of its execution. 95. Form of proxy An instrument appointing a proxy shall be in the form No. MGT-11 as prescribed in the rules made under section 105 of the Companies Act 2013. 96. Proxy either for specified meeting or for a period An instrument of proxy may appoint a proxy either for the purpose of a particular meeting specified in the instrument and any adjournment thereof or it may appoint for the purpose of every meeting of the Company or of every meeting to be held before a date specified in the instrument and every adjournment of any such meeting. 97. Validity of votes given by proxy notwithstanding death of Member A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or the revocation of the proxy or of the authority under which the proxy was executed or the transfer of the shares in respect of which the proxy is given. Provided that no intimation in writing of such death, insanity, revocation or transfer shall have been received by the company at its office before the commencement of the meeting or adjourned meeting at which the proxy is used.</li> </ul> |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 57 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 58 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 59 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                          |                                     |    | <b>Board of Directors</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |    | <ul style="list-style-type: none"> <li>98. Management of Affairs The day to day management of the business and affairs of the Company shall be vested with Project-in-charge under the supervision direction control of the Board. The Board may exercise all such powers of the Company and do all such acts deeds and things as are not prohibited by the Act or any other statute or by the Memorandum of Association of the Company and without prejudice to the foregoing shall be responsible for all policy matters and the supervision direction and control of the conduct of the business affairs operations of the Company. 99. First Directors Shri Milind M. Daface Shri Naveen Kumar and Shri Rishab</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



Jain shall be the First Directors of the Company. 100. Number and appointment of Directors The Board of Directors of the Company shall consist of not less than 3 but not more than 15 Directors. A Director shall not be required to hold any qualification shares in the Company. Notwithstanding anything to the contrary contained in these Articles so long as any moneys remain owing by the Company to a Financial Institution or any other person by the Company or the Company has entered into any agreement or undertaking or arrangement (hereinafter referred to as agreement) with Bodies (like State Electricity Board Nigam) or the Board of Directors have decided to seek nomination on the Board from the beneficiary state or any Financial Institution or PFC Consulting Limited or person holds Debentures in the Company by direct subscription or private placement the Company may agree to grant to such Financial Institution PFC Consulting Limited person or other Bodies as a condition of such loan or subscription to Debenture or any other agreement or to a Debenture Trustee the right to appoint from time to time any person or persons as Director or Directors of the Company (which director or directors is are hereinafter referred to as Nominee Directors) retiring or non-retiring subject to and on such terms and conditions as the Company may agree with such Financial Institutions PFC Consulting Limited Person other Bodies and or Debenture Trustee. The Company shall have a right to remove from office Nominee Director(s) at the option of the Company in consultation with Financial Institutions PFC Consulting Limited Bodies persons or Debenture Trustee. Such Nominee Director(s) shall not be required to hold any Share qualification in the Company. Also at the option of the Company such Nominee Director(s) shall not be liable to retirement by rotation of the Directors. Subject as aforesaid the Nominee Director(s) shall be entitled to the same rights and privileges and be subject to the same obligations as any other Director of the Company. The Nominee Director(s) so appointed shall hold the said office only so long as moneys remain owing by the Company to the Financial Institution or so long as the Debenture Trustee hold debenture in the Company or operation of agreement and the Nominee Directors so appointed in the exercise of the said person shall ipso facto vacate such office immediately the money owing by the Company to the Financial Institution or on the Debenture Trustee ceasing to hold Debentures Shares on the satisfaction of liability of the Company arising out of any Guarantee furnished by the Financial Institutions or satisfactory completion of term of agreement with Bodies. The Nominee Director(s) appointed under this article shall be entitled to receive all notice of and attend all General meeting Board Meeting and of the meetings of the Committee of which the Nominee Director(s) is a member(s) as also the minutes of meetings. The financial institutions Debenture Trustee persons bodies shall also be entitled to receive all such notice and minutes. The Company shall pay to the Nominee Director(s) sitting fees and expenses which other Director of the Company are entitled but if any other fees commission remuneration in any form is payable to the Director of the Company the fees commission money and remuneration in relation to such Nominee Director(s) shall accrue to Debenture Trustee and same shall accordingly be paid by the Company directly to the debenture trustee. Any expenses that may be incurred by the financial institution or such Nominee Director(s) in connection with their appointment or Directorship shall also be paid or reimbursed by the Company to the financial Institution or as the case may be to such Nominee





Director(s). Provided that if any such Nominee Director(s) is are an officer of the Financial Institution the sitting fees in relation to such Nominee Director(s) shall also accrue to the Financial Institution and the same shall accordingly be paid by the Company directly to that Financial Institution. Provided further that if such Nominee Director(s) is are an official of any of the Reserve Bank of India the sitting fees in relation to such Nominee Director(s) shall also accrue to Financial Institution to whom here represents as Nominee Director from Reserve Bank of India and the same shall accordingly be paid by the Company directly to that Financial Institution. Provided also that in the event of the Nominee Director(s) being appointed as Whole Time Director(s) such Nominee Director(s) shall exercise such powers and duties as may be approved by the Lenders or Bodies in consultation with Board and have such rights as are usually exercised or available to a Whole Time Director in management of the Borrower or Bodies and such Nominee Director(s) shall be entitled to receive such remuneration fees commission and moneys as may be approved by the Lenders or Bodies in consultation with Board.

101. Company may increase the number of Directors Subject to Section 149 of the Act the Company may subject to special resolution in General Meeting increase the maximum number of Directors. Further the Company may subject to the provisions of Section 169 of the Act by passing the ordinary resolution in the General Meeting of the members may remove any Director before the expiration of his period of office and appoint another person in the place of director so removed.

102. Appointment of Alternate Directors In accordance with Section 161 and other applicable provisions (if any) of the Act the Board shall have power at any time and from time to time to appoint a person not being a person holding any alternate directorship for any other Director in the Company to act as an alternate director for a director (hereinafter called the original Director) during his absence for a period of not less than three months from India.

103. Directors power to fill up casual Vacancies Casual vacancies among Directors may be filled by the Board of Directors at their meeting and any person so appointed shall hold the office as per the provision of section 161.

104. Appointment of Additional Director Subject to the provisions of Section 161 and other applicable provisions (if any) of the Act the Board shall have power at any time and from time to time to appoint a person as an Additional Director but so that the total number of Directors shall not at any time exceed the maximum number fixed by these Articles. The Additional Director so appointed shall retire from Office at next following Annual General Meeting but shall be eligible for election by the company at that meeting as a Director.

105. Directors may act notwithstanding any vacancy The continuing Directors may act notwithstanding any vacancy in their body but if and so long as their number is reduced below the minimum number fixed by Article 100 thereof the continuing Directors may act for the purpose of increasing the number of Directors to that number or of summoning a General Meeting for that purpose.

106. Remuneration of Directors Subject to the provisions of the Act the Chairman or Managing Director or any other functional Directors who is are in the whole-time employment of the Company may be paid remuneration either by way of a monthly payment or at a specified percentage of the net profit of the Company or partly by one way and partly by the other keeping in view the limiting provisions governing the Managerial remuneration under the provisions of the Act. Subject to the provisions of the Act a Director who is neither in the whole-time



employment nor a Chairman cum Managing Director of the Company may be paid remuneration either-(a) by way of monthly quarterly or annual payment with the approval of the Central Government or (b) by way of commission if the Company by a special resolution authorizes such payment and The sitting fee payable to a Director (excluding Whole-time Director) for attending a meeting of the Board or Committee thereof shall be such sum as may be fixed by the Board provided that the same shall not exceed Rs. 100000- or such other sum as prescribed in the Act as amended from time to time. Travelling expenses incurred by Director going out on Company's Business The Board may allow and pay to any Director who is not a bona-fide resident of the place where the Registered Office of the Company or where the meetings of the Board are actually held and who has to come to such place for the purpose of attending any meeting such sum as the Board may consider fair compensation for travelling boarding lodging and other actual incidental expenses in addition to his fee for attending such meeting as specified above. If any Director be called upon to go or reside out of the bona-fide place of his residence on the Company's business he shall be entitled to be paid and reimbursed any travelling or other actual expenses incurred by him in connection with the business of the Company. 107. When office of Directors to become Vacant Subject to Section 167 of the Act the office of a Director shall become vacant if-(a) he incurs any of the disqualifications specified in section 164 under the act (b) he absents himself from all the meetings of the Board of Directors held during a period of twelve months with or without seeking leave of absence of the Board (c) he acts in contravention of the provisions of entering into contracts or arrangements in which he is directly or indirectly interested (d) he fails to disclose his interest in any contract or arrangement in which he is directly or indirectly interested (e) he becomes disqualified by an order of a court or the Tribunal (f) he is convicted by a court of any offence whether involving moral turpitude or otherwise and sentenced in respect thereof to imprisonment for not less than six months Provided that the office shall be vacated by the director even if he has filed an appeal against the order of such court (g) he is removed in pursuance of the provisions of this Act (h) he having been appointed a director by virtue of his holding any office or other employment in the holding subsidiary or associate company ceases to hold such office or other employment in that company. 108. Directors may contract with Company Except with the consent of the Board of Directors given by a resolution at a meeting of the Board and subject to such conditions the company shall not enter into any contract or arrangement with a related party with respect to (a) sale purchase or supply of any goods or materials (b) selling or otherwise disposing of or buying property of any kind (c) leasing of property of any kind (d) availing or rendering of any services (e) appointment of any agent for purchase or sale of goods materials services or property (f) such related party's appointment to any office or place of profit in the company its subsidiary company or associate company (g) underwriting the subscription of any securities or derivatives thereof of the company. Every contract or arrangement entered as related party transaction shall be referred in the Board's report to the shareholders along with the justification for entering into such contract or arrangement. 109. Disclosure of interest by Directors 1) Every Director of the Company who is in any way whether directly or indirectly concerned or interested in a contract or arrangement or proposed by Directors interested in a contract or arrangement or

proposed contract or arrangement entered into or to be entered into by or on behalf of the Company shall disclose the nature of his concern or interest at every financial year or whenever there is change in the disclosure of interest. (2) Nothing in sub-clause (1) of this Article shall apply to any contract or arrangement entered into or to be entered into between the Company and any other company where any of the Directors of the Company or two or more of the Directors together holds or hold not more than two per cent of the paid-up share capital in the other company. 110. Interested Directors not to participate or vote in Board proceedings. An interested director who is in any way whether by himself or through any of his relatives or firm body corporate or other association of individuals in which he or any of his relatives is a partner, director or a member interested in a contract or arrangement or proposed contract or arrangement entered into or to be entered into by or on behalf of a company shall take any part in the discussion of or vote on any contract or arrangement entered into or to be entered into by or on behalf of the Company if he is in any way whether directly or indirectly concerned or interested in such contract or arrangement nor shall his presence count for the purpose of forming a quorum at the time of any such discussion or vote and if he does vote his vote shall be void. A contract or arrangement entered into by the company without disclosure or with participation by a director who is concerned or interested in any way directly or indirectly in the contract or arrangement shall be voidable at the option of the company. 111. Register of Contracts in which Directors are interested. The company shall keep registers in accordance with Section 189(1) giving separately the particulars of all contracts or arrangements to which the matter of disclosure of interest by directors and related party transaction applies in such manner and containing such particulars as may be prescribed and after entering the particulars such registers shall be placed before the next meeting of the Board and signed by all the directors present at the meeting and shall within thirty days of appointment make such disclosure as is necessary for the purpose of same. The Register shall be kept at the Registered office of the Company and shall be open to inspection at such office shall be open for inspection at such office during business hours and extracts may be taken therefrom and copies thereof as may be required by any member of the company shall be furnished by the company to such extent in such manner and on payment of same fee as in the case of the Register of Members of the Company. 112. Director may be Director of companies promoted by the Company. A Director may become a Director of any other company promoted by the Company or in which it may be interested as a vendor, shareholder or otherwise and no such Director shall be accountable for any benefits received as Director or shareholder of such a company except in so far as Section 188 of the Act may be applicable. 113. Register of Directors and key managerial personnel and their Shareholding. The Company shall keep at its registered office a Register containing such particulars of its Directors and key managerial personnel as may be prescribed under Section 170 of the Act and shall comply with the provisions of the said Section in all respects. The register shall include the details of securities held by each of them in the company or its holding subsidiary or subsidiary of company's holding company or associate companies.



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|                          |                                     |    | <b>Proceedings of the Board</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |    | <ul style="list-style-type: none"> <li>114. Meetings of DirectorsThe Directors may meet together as a Board for the dispatchof business from time to time so that at least four such meetings shall beheld in every year in such a manner that not more than one hundred and twentydays shall intervene between two consecutive meetings of the Board. TheDirectors may adjourn and regulate their meetings as they think fit.115. Board may appoint ChairmanAll meetings of the Directors shall be presided over by theChairman if present but if at any meeting of the Directors the Chairman isnot present at the time appointed for holding the same then in that case theDirectors shall choose one of the Directors present to preside over themeting.116. Certain persons not to beappointed Chairman Managing Directors Functional DirectorTheCompany shall not appoint a person as its Chairman Managing Director or Whole-time Directorwho-(a) is an undischarged insolvent or had at any time beenadjudged an insolvent(b) is or has at any time been convicted by a Court of an offence involving moral turpitude.117. Notice of Directors MeetingA meeting of the Board shall be called by giving not less than seven days notice in writing to every director at his address registered with the company and such notice shall be sent by hand delivery or by post or by electronic means. Board may be called at shorter notice to transact urgentbusiness where at least one independent director if any shall be present. Every notice convening a meeting of the Board of Directorsshall set out the agenda of the business to be transacted thereat in sufficientdetail provided however that the meeting may consider any other business with the permission of the chair.118. When meeting to be convenedThe Company Secretary or any director of the Company may asand when directed by the Chairman to do so convene a meeting of the Board by giving a notice in writing to every Director.119. Quorum at Board Meeting No business shall be transacted at any Board meeting unless a quorum of Board of Director is present at the time when the meeting proceedsto business. Save as otherwise provided herein the quorum for the Board meetings shall be as provided in section 174.120. Questions at Board meetings how to be decidedAll questions arising at a Meeting of the Board or any committee thereof shall be decided by majority of votes of directors present and in case of equality of votes the Chairperson shall have a second and casting vote.121. Committee of BoardSubject to the restrictions contained in Section 179 180 and other applicable provisions of the Act and preceding Articles the Board may delegate any of its powers to Committees of the Board consisting of</li> </ul> |



such member or members of its body as it may think fit. PROVIDED that the Board may from time to time revoke, modify and discharge any such Committee of the Board either wholly or in part. Every Committee of the Board so formed shall in the exercise of the powers so delegated conform to any Policy regulations that may from time to time be laid down by the Board. All acts done by any such Committee of the Board in conformity with such regulations and in fulfillment of the purposes of their appointment shall have the like force and effect as if done by the Board.

122. Meeting of Committee how to be Governed The meetings and proceedings of any such Committee of the Board consisting of two or more members shall be governed by the provisions of the act and guidelines laid down for regulating the meetings and proceedings of the Directors so far as the same are applicable thereto and are not superseded by any regulations made by Directors under the last preceding Article.

123. Resolution by circulation No resolution on matters shall be deemed to have been duly passed by the Board or by a Committee thereof by circulation unless the resolution has been circulated in draft together with the necessary papers if any to all the Directors or members of the Committee as the case may be at their addresses registered with the company in India by hand delivery or by post or by courier or through such electronic means as may be prescribed and has been approved by a majority of the directors or members who are entitled to vote on the resolution. Resolution passed in such circulation shall be made part of the minutes of such meeting. Provided that where not less than one-third of the total number of directors of the company for the time being require that any resolution under circulation must be decided at a meeting the chairperson shall put the resolution to be decided at a meeting of the Board.

124. Defects in appointment of Directors not to invalidate actions taken All acts done by any meeting of the Board or by a Committee of the Board or by any person acting as a Director shall notwithstanding that it was subsequently noticed that there was some defect in the appointment of such Director or persons acting as aforesaid or that they or any of them were disqualified or had vacated office or that the appointment of any of them had been terminated by virtue of any provisions contained in the Act or these Articles be as valid as if every such person had been duly appointed and was qualified to be a Director and had not vacated his office or his appointment had not been terminated. PROVIDED that nothing in this Article shall be deemed to give validity to acts done by a Director after his appointment had been noticed by the Company to be invalid or to have terminated.

125. Minutes of proceedings of meetings of the Board (a) The Company shall cause minutes of all proceedings of every meeting of the Board and committee thereof to be kept by making within thirty days of the conclusion of every such meeting record thereof in Minute Book kept for that purpose with their pages consecutively numbered. (b) Each page of every such book shall be initialed or signed and the last page of the record of proceedings of each meeting in such book shall be dated and signed by the Chairman of the said meeting or the Chairman of the next succeeding meeting. The minute books of the Board and committee meetings shall be preserved permanently and kept in the custody of the company secretary of the company or any director duly authorized by the Board for the purpose and shall be kept in the registered office or such place as Board may decide. The minutes shall also contain - (i) the names of the Directors present at the meeting And (ii) in the case of each resolution passed at the



67

meeting the names of the Directors if any dissenting from or not concurring with the resolution. Nothing deemed to require the inclusion in any such minutes of any matter which in the opinion of the Chairman of the meeting (i) is or could reasonably be regarded as defamatory of any person, (ii) is irrelevant or immaterial to the proceedings or (iii) is detrimental to the interests of the Company. The Chairman shall exercise an absolute discretion in regard to the inclusion or non-inclusion of any matter in the minutes on the grounds specified in this sub-clause. (c) Minutes of meetings kept in accordance with the aforesaid provisions shall be evidence of the proceedings recorded therein.

126. Powers of Board The Board may exercise all such powers of the Company and do all such acts and things as it is entitled to do under section 179 of the Act and rules made thereunder or by the Memorandum or Articles of the Company but shall not decide matters required to be exercised or done by the Company in General Meeting Subject to these Articles no regulation made by the Company in General Meeting shall invalidate any prior act of the Board which would have been valid if that regulation had not been so made. Certain powers of the Board Without prejudice to the general powers conferred by the Act and preceding Article and so as not in any way to limit or restrict those powers and without prejudice to the other powers conferred by these Articles and by General Body it is hereby declared that the Directors shall have the following powers that is to say power-(1) to pay and charge to the capital account of the Company any commission or interest lawfully payable there out under the provisions of Sections 40 of the Act (2) Subject to Sections 179 and 180 of the Act to purchase or otherwise acquire for the Company any property rights or privileges which the Company is authorised to acquire at or for such price or consideration and generally on such terms and conditions as they may think fit and in any such purchase or other acquisition to accept such title as the Directors may believe or may be advised to be reasonably satisfactory (3) At their discretion and subject to the provisions of the Act to pay for any property rights or privileges acquired by or services rendered to the Company either wholly or partially in cash or in shares bonds debentures mortgages or other securities of the Company and any such shares may be issued either as fully paid-up or with such amount credited as paid-up thereon as may be agreed upon and any such bonds debentures mortgages or other securities may be either specially charged upon all or any part of the property of the Company and its uncalled capital or not so charged (4) To secure the fulfillment of any contract or engagement entered into by the Company in the normal course of business by mortgage or charge any of the property of the Company and its uncalled capital for the time being or in such manner as they may think fit (5) To accept from any Member as far as may be permissible by law a surrender of his shares or any part thereof on such terms and conditions as shall be agreed upon (6) To appoint any person to accept and hold in trust for the Company any property belonging to the Company in which it is interested or for any other purposes and to execute and do all such deeds and things as may be required in relation to any such trust and to provide for the remuneration of such trust or trustees (7) To institute conduct defend compound or abandon any legal proceedings by or against the Company or its officers or otherwise concerning the affairs of the Company and also to compound and allow time for payment or satisfaction of any debts due and of any claim or demand by or against the Company and to refer any differences to arbitration and observe and execute



any awards made thereon(8) To act on behalf of the Company in all matters relating to bankruptcy and insolvency(9) To make and give receipts releases and other discharges for moneys payable to the Company and for the claims and demands of the Company(10) Subject to applicable provisions of the Act to invest and deal with any moneys of the Company not immediately required for the purposes thereof upon such security (not being shares of this Company) or without security and in such manner as they may think fit and from time to time to vary or realise such investments. Save as provided in Section 187 of the Act all investments shall be made and held in the Company's own name(11) To execute in the name and on behalf of the Company in favour of any Director or other person who may incur or going to incur any personal liability whether as principal or surety for the benefit of the Company such mortgages of the Company's property (present and future) as they think fit and any such mortgage may contain a power of sale and such other powers provisions covenants as shall be agreed upon(12) To open account with any bank or banks and to determine from time to time who shall be entitled to sign on the Company's behalf bills notes receipts acceptances endorsements cheques dividend warrants releases contracts and documents and to issue the necessary authority for such purpose(13) To distribute by way of bonus or commission amongst the staff of the Company on the profits of any particular business or transaction and to charge such bonus or commission as part of the working expense of the Company(14) To provide for the welfare of employees or ex-employees of the Company and their families or connections of such persons by building or contributing to the building of houses dwellings or chawls or by grants of money pension gratuities allowances bonus or other payments or by creating and from time to time subscribing or contributing to provident and other funds associations institutions or trusts and by providing or subscribing or contributing towards places of instruction and recreation hospitals and dispensaries medical and other attendance and other assistance as the Board shall think fit and to subscribe or contribute or otherwise to assist or to guarantee money to charitable benevolent religious scientific national or other institutions or objects which shall have any moral or other claim to support or aid by the Company either by reason of locality of operation or of public and general utility or otherwise(15) Before recommending any dividend to set aside out of the profits of the Company such sums as they may think proper for depreciation or to a Depreciation Fund or to an Insurance Fund or as a Reserve Fund or Sinking Fund or any Special Fund to meet contingencies or to repay debentures or debenture stock or for special dividends or for equalizing dividends or for repairing improving extending and maintaining any of the property of the Company and for such other purposes (including the purposes referred to in the preceding clause) as the Board may in their absolute discretion think conducive to the interest of the Company and subject to Section 179 of the Act to invest the several sums so set aside or so much thereof as required to be invested upon such investments (other than shares of the Company) as they may think fit and from time to time to deal with and vary such investments and dispose of and apply and expend all or any part thereof for the benefit of the Company in such manner and for such purposes as the Board in their absolute discretion think conducive to the interest of the Company notwithstanding that the matters to which the Board apply or upon which they expend the same or any part thereof may be matters to or upon



which the capital moneys of the Company might rightly be applied or expended and to divide the Reserve Fund or division or a reserve Fund to another Reserve Fund or division of a Reserve Fund and with full power to employ the assets constituting all or any of the above funds including the Depreciation Fund in the business of the Company or in the purchase or repayment of Debentures or debenture stock and without being bound to keep the same separate from the other assets and without being bound to pay interest on the same with power however to the Board at their discretion to pay or allow to the credit of such funds interest at such rate as the Board may think proper (16) To appoint and at their discretion remove or suspend such officers such as Executive Director general managers managers secretaries assistants supervisors clerks agents and servants etc. for permanent temporary or special services as they may from time to time think fit and to determine their powers and duties and fix their salaries or emoluments or remunerations and to require security in such instances and to such amounts as they may think fit. And also from time to time to provide for the management and transaction of the affairs of the Company in any specified locality in India or abroad in such manner as they think fit and the provisions contained in the following sub-clauses shall be without prejudice to the general powers conferred by this sub clause (17) From time to time and at any time to establish any number of offices and establishment for properly managing the affairs of the Company in any specified locality in India or elsewhere and to appoint staff for such offices and to fix their remuneration (18) Subject to the provisions of the Act from time to time and at any time to delegate to any such local Board or any member or member thereof or any managers or agents so appointed or to any other person(s) any of the powers authorities and discretions for the time being vested in the Board and to authorise the members for the time being of any such local Board or any of them to fill up any vacancies therein and to act notwithstanding vacancies and any such appointment or delegation under the preceding and this sub-clause may be made on such terms and subject to such conditions as the Board may think fit and the Board may at any time remove any person so appointed and may annul or vary any such delegation (19) At any time and from time to time by Power of Attorney under the Seal of the Company to appoint any person or persons to be the Attorney or Attorneys of the Company for such purposes and with such powers authorities and discretions (not exceeding those vested in or exercisable by the Board under these presents and excluding the power to make calls and excluding also those which are to be exercised by the Board in its Meetings) and for such period and subject to such conditions as the Board may from time to time think fit and any such appointment may (if the Board thinks fit) be made in favour of the members or any of the members of any local Board established as aforesaid or in favour of any company or the shareholders directors nominees or managers or any company or firm or otherwise in favour of any persons whether appointed by name or designation by the Board and any such Power of Attorney may contain such powers for the protection or convenience of such Attorney as the Board may think fit and Board may specifically bestow powers enabling any such delegate or attorneys to sub-delegate all or any of the powers authorities and discretions for the time being vested in them (20) Subject to Sections 188 of the Act for or in relation to any of the matters aforesaid or otherwise for the purposes of the Company to enter into such negotiations and contracts and rescind and vary

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|                          |                                     |    | such contracts and execute and do all such acts deeds and things in the name and on behalf of the Company as they may consider expedient (21) From time to time to make vary and repeal bye-laws for the regulations of the business of the Company regulate employment of its officers and servants by making service Rules and Regulations (22) Maintain proper records at places as per provisions of the Act and where the Company has a branch office whether in or outside India the Company shall be deemed to have complied with this Article if proper Books of Account relating to the transactions effected at the branch office are kept at the branch office and proper summarized returns made up-to-date at intervals of not more than three months are sent by the branch office to the Company at its Office or other place in India at which the Company's Books of Accounts are kept as aforesaid (23) Ensure proper maintenance of the Books of Account which shall give a true and fair view of the state of the affairs of the Company or branch office as the case may be and explain its transactions. The Books of Account and other books and papers shall be open to inspection by any Director during business hours. |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 68 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 69 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 73 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 75 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 76 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                          |                                     |    | <b>Chief Executive Officer, Manager, Company Secretary or Chief Financial Officer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 77 | <ul style="list-style-type: none"> <li>127. CEO MANAGER CS AND CFO Subject to the provisions of the Act --(i) A chief executive officer manager company secretary or chief financial officer may be appointed by the Board for such term at such remuneration and upon such conditions as it may think fit and any chief executive officer manager company secretary or chief financial officer so appointed may be removed by means of a resolution of the Board (ii) A director may be appointed as chief executive officer manager company secretary or chief financial officer As per provisions of the Act or these regulations requiring or authorising a thing to be done by or to a director and chief executive officer manager company secretary or chief financial officer shall not be satisfied by its being done by or to the same person acting both as director and as or in place of chief executive officer manager company secretary or chief financial officer.</li> </ul>                                                                                                                                                                                                                                                    |



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|                          |                                     |    | <b>The Seal</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 79 | <ul style="list-style-type: none"> <li>128. The Seal its custody and useThe Board shall provide a Common Seal for the purpose of theCompany and shall have power from time to time to destroy the same andsubstitute a new Seal in lieu thereof and the Board shall provide for the safecustody of the Seal for the time being and the seal shall never be used excepton the authority of the Board or by Committee of the Board as authorised.129. Deeds how executedEvery deed or other instrument to which the Seal of theCompany is required to be affixed shall unless the same is executed by a duly constitutedattorney issued under the seal be signed by two Directors or one Director andSecretary or some other person authorised by the Board for the purpose PROVIDED that in respect of the Share Certificate the Sealshall be affixed in accordance with Article as mentioned above.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                          |                                     |    | <b>Dividends and Reserve</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |    | <ul style="list-style-type: none"> <li>130. Division of profits and dividends in proportion toamount paid-up(a) The profits of the Company subject to any specialrights relating thereto created or authorised to be created by these Articlesand subject to the provisions of these Articles shall be divisible among theMembers in proportion to the amount of capital paid-up or credited as paid-upon the shares held by them.(b) All dividends shall be apportioned and paidproportionately to the amounts paid or credited as paid on the shares heldduring any portion or portions of the period in respect of which the dividendis paid but if any share is issued on terms providing that it shall rank fordividend from a particular date such share shall rank for dividendaccordingly.131. The Company in General Meeting may declare a dividendCompany in General Meeting may declare dividends to be paidto Members according to their respective rights but no dividends shall exceedthe amount recommended by the Board but the Company in General Meeting maydeclare a smaller dividend.132. Dividends only to be paid out of Profitsa) No dividend shall be declared or paid by the Company forany financial year except out of its profits for that year arrived at in themanner set out in Section 123 of the Act.(b) Where owing to inadequacy or absence of profits in anyfinancial year any Company proposes to declare dividend out of the accumulatedprofits earned by it in previous years and transferred by the company toreserves such declaration of dividend shall not be made except in accordancewith such rules as may be made in that behalf.(c) No dividend shall be declared or paid by a company fromits reserves other than free reserves.133. Interim DividendSubject to the provisions of Section 123 the Board mayfrom time to time pay the Members such interim dividend as appear to it to bejustified by the profits of the Company.134. Capital paid - up in advance to carry InterestWhere capital is paid in advance of calls such capital maycarry interest but shall not in respect thereof confer a right to dividend orparticipate in profits.135. Retention of dividends until completion of transfer The Board may retain the dividends payable on shares interms of Section 126 in respect of which any person is entitled to become aMember or on completion any person under those Articles is</li> </ul> |



80

entitled to transfer or until such person shall become a Member in respect of such shares or shall duly transfer the same. 136. Transfer of shares must be Registered. A transfer of shares shall not pass the right to any dividend declared thereon before the registration of transfer. Provided that where any instrument of transfer of shares has been delivered to the Company for registration and the transfer of such shares has not been registered by the Company it shall notwithstanding anything contained in any other provision of this Act) transfer the dividend in relation to such shares to the Unpaid Dividend Account referred to in Section 124 of the Act unless the Company is authorised by the registered holder of such shares in writing to pay such dividend to the transferee specified in such instrument of transfer and (b) keep in abeyance in relation to such shares any offer of rights shares under clause (a) of sub-section (1) of section 62 of the Act and any issue of fully paid-up bonus shares in pursuance of first proviso to sub-section (5) of section 123 of the Act. 137. No Member to receive dividend whilst indebted to the Company. Company's right of reimbursement. Thereon No Member shall be entitled to receive payment as interest or dividend in respect of his shares whilst any money may be due or owing from him to the Company in respect of such share or shares or otherwise howsoever either alone or jointly with any person or persons and the Board may deduct from the interest or dividend payable to any Member all sums of money so due from him to the Company. 138. Dividends how remitted. (1) Unless otherwise directed any dividend payable in cash may be paid by cheque or warrant or in any electronic mode or by a pay slip or receipt or in any other manner having the force of a cheque or warrant sent through the post to the registered address of the Member or person entitled or in case of joint holders to that one of them first named in the Register in respect of the joint holdings. Every such cheque or warrant shall be made payable to the order of the person to whom it is sent the Company shall not be liable or responsible for any cheque or warrant or pay slip or receipt lost in transmission or for any dividend lost to the Member or person entitled thereto by the forged endorsement of any cheque or warrant or the forged signature of any pay slip or receipt or the fraudulent recovery of the dividend by any other means. (2) Notwithstanding anything contained in these Articles any dividend declared may be paid by Electronic Clearing System through any Sponsor Bank after getting registration with the Reserve Bank of India for using this facility and collecting from the members necessary bank mandate in the prescribed format. 139. Dividends and call together. Any General Meeting declaring a dividend may on the recommendation of the Board make a call on the Members of such amount as the meeting may fix but so that the call on each Member shall not exceed the dividend payable to him and so that the call be made payable at the same time as the dividend and the dividend may if so arranged between the Company and the Member be set off against the calls. 140. Unclaimed dividend. No unclaimed dividend shall be forfeited and all unclaimed dividends shall be dealt with in accordance with the provisions of Section 124 and other applicable provisions of the Act. 141. No interest against Dividend. No dividend shall bear interest against the company.

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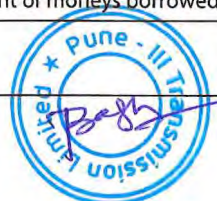
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| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 85 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 86 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 87 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 88 | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                          |                                     |    | <b>Accounts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 89 | <ul style="list-style-type: none"> <li>142. Directors to keep true accounts(a) Every company shall prepare and keep at its registered office including its branch office or offices or at such other place in India as the Board thinks fit Books of Accounts and other relevant books and papers and financial statement for every financial year which give a true and fair view of the state of the affairs of the company in accordance with Section 128 of the Act with respect to-(i) all sums of money received and expended by the Company and the matters in respect of which the receipts and expenditure take place(ii) all sales and purchases of goods by the Company(iii) the assets and liabilities of the Company. (iv) state of affairs of the company.(b) Where the Board decides to keep all or any of the Books of Account at any place other than the Office of the Company the Company shall within seven days of the decision file with the Registrar a Notice in writing giving the full address of that other place in accordance with Section 128 of the Act.(c) The company may keep such books of account or other relevant papers in electronic mode in such manner as may be prescribed.(d) The Company shall preserve in good order the Books of Account relating to a period of not less than eight financial years immediately preceding a financial year. The books of account and other relevant books and papers maintained in electronic mode shall remain accessible in India so as to be usable for subsequent reference together with the vouchers relevant to any entry in such Books of Account.143. Inspection of accounts or record by membersNo Member (not being a director) shall have any right of inspecting any account or books or documents of the Company except as conferred by Section 94 of the Act or authorised by the Board or by the company in general meeting.The Board may determine whether and to what extent and at what time and place and under what conditions or regulations the accounts and books of the Company or any of them may be open to inspection of the Members.Notwithstanding anything to the contrary contained hereinabove the authorised representative of Promoters shall have a right to inspect the accounts books plant facility documents records premises equipment and machinery and all other property of the Company at convenient time(s) after giving advance notice to the Company.144. Statement of Accounts to be furnished to General Meeting The Directors shall from time to time in accordance with Sections 129 and 134 and other applicable provisions of the Act cause to be prepared and to be laid before the Company in</li> </ul> |



|                          |                                     |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------|-------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |                                     |    | <p>General Meeting such Balance Sheets Profit and Loss Accounts and Reports as are required by these Sections. 145. Copies shall be sent to each Member Without prejudice to the provisions of Section 101 and subject to the provisions of Section 136 of the Act a copy of the financial statements including consolidated financial statements auditors report and every other document required by law to be annexed or attached to the Balance Sheet shall at least twenty-one days before the General Body Meeting at which the same are to be laid before the members be sent to the members of the company to every trustee for every holder of any debenture issued by the company and to all persons other than such members or trustee being the persons so entitled to attend the General Body Meeting. 146. Copy of financial statement to be filed with registrar The Company shall comply with Section 137 of the Act as to filing copies of the Balance Sheet and Profit and Loss Account and documents required to be annexed or attached thereto with the Registrar.</p>                                                                                                                                                                                                                                                                                                                                                                                                             |
|                          |                                     |    | <b>Winding up</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 90 | <ul style="list-style-type: none"> <li>147. Procedure for winding up If the Company shall be wound up and the assets available for distribution among the members as such shall be insufficient to repay the whole of the paid up capital such assets shall be distributed so that as nearly as may be the losses shall be borne by the members in proportion to the capital paid up or which ought to have been paid up at the commencement of the winding-up on the shares held by them respectively. And if in a winding-up the assets available for distribution among the members shall be more than sufficient to repay the whole of the capital paid up at the commencement of the winding-up the excess shall be distributed amongst the members in proportion to the capital at the commencement of the winding-up paid up or which ought to have been paid up on the shares held by them respectively. But this Article is to be without prejudice to the rights of the holders of shares issued upon special terms and conditions. If the Company shall be wound up whether voluntarily or otherwise the liquidators may with the sanction of a Special Resolution divide among the contributions in specie or kind any part of the assets of the Company and may with the like sanction vest any part of the assets of the Company in Trustees upon such trusts for the benefit of the contributories or any of them as the liquidators with the like sanction shall think fit.</li> </ul> |
|                          |                                     |    | <b>Indemnity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 91 | <ul style="list-style-type: none"> <li>148. Officers to be indemnified Subject to provisions of the Act every Officer of the company shall be indemnified out of the assets of the Company against any liability incurred by him in defending any proceedings whether civil or criminal in which judgment is given in his favour or in which he is acquitted or in which relief is granted to him by the court or the Tribunal. Provided that if such person is proved to be guilty the premium paid on such insurances shall be treated as part of the remuneration.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                          |                                     |    | <b>Others</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                          |                                     |    | <ul style="list-style-type: none"> <li>149. Company not bound to recognize holding of shares on trust or</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |



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|--------------------------|-------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> |  | <p>any interest in shares other than that of registered holder Except as ordered by a Court of competent jurisdiction or as required by law the Company shall not be bound to recognize holding of any share upon any trust and to recognize any equitable contingent future or partial interest in any share or any interest in any fractional part of a share (except only as is by these Articles otherwise expressly provided) any right in respect of a share other than an absolute right thereto in accordance with these Articles in the person from time to time registered as the holder thereof but the Board shall be at liberty at their sole discretion to register any share in the joint names of any two or more persons or the survivor or survivors of them.</p> <p>150. Funds etc. of Company may not be applied in purchase of shares of the Company. The Company shall not give either directly or indirectly and either by means of a loan guarantee the provision of security or otherwise any financial assistance for the purpose of or in connection with the purchase or subscription made or to be made by any person for purchase of any shares in the Company except in conformity with the provisions of Section 67 of the Act.</p> <p>151. Underwriting and Brokerage Commission may be paid. Subject to the provisions of Section 40 of the Act the Company may at any time pay a commission to any person in consideration of his subscribing or agreeing to subscribe for any shares in or debentures of the Company or procuring or agreeing to procure subscriptions for any shares in or debentures of the Company but so that the commission shall not exceed in case of shares five percent of the price at which the shares are issued and in case of debentures two and a half percent of the price at which the debentures are issued. Such commission may be satisfied by payment in cash or by allotment of fully or partly paid shares or debentures or partly in one way and partly in the other.</p> <p>Brokerage The Company may also on any issue of shares or debentures pay such brokerage as may be lawful.</p> <p>152. Interest out of Capital Interest may be paid out of capital. Where any shares are issued for the purpose of raising money to defray the expenses of the construction of any work or building or the provision of any plant which cannot be made profitable for a lengthy period the Company may pay interest on so much of that share capital as is for the time being paid up for the period at the rate and subject to the conditions and restrictions provided by the Company Act 2013 and may charge the same to capital as part of the cost of construction of the work or building or the provision of plant.</p> <p>153. Annual Returns The Company shall comply with the provisions of Sections 92 of the Act as to the making of Annual Returns.</p> <p>154. Borrowing powers As per the provisions of Section 73 76 179 180 and other applicable provisions of the Act the Board of Directors may from time to time at its discretion by resolution at a meeting of the Board and subject to the approval of the shareholders in General Meeting accept deposits from Member either in advance of calls or otherwise and generally raise or borrow or secure the payment of any sums of money for the purpose of the Company. Provided however where the moneys already borrowed (apart from temporary loans obtained from the Company's bankers in the ordinary due course of business) exceed the aggregate of the paid-up capital of the Company its free reserves (not being reserves set apart for any specific purpose) and the securities premium the Board shall not borrow such moneys without the consent of the Company in General Meeting.</p> <p>Payment or repayment of borrowed Moneys Subject to the provisions of Article 64 hereof the payment and repayment of moneys borrowed as aforesaid may be secured in</p> |
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such manner and upon such terms and conditions in all respects as the Board of Directors may think fit by resolutions passed at a meeting of the Board and in particular by the issue of bonds or debentures of the Company whether unsecured or secured by a mortgage or charge over all or any part of the property of the Company (both present and future) including its uncalled capital for the time being and debentures and other securities may be made assignable free from any equities between the Company and the person to whom the same may be issued. Terms of issue of Debentures Any debentures or other securities may be issued on otherwise and may be issued on condition that they shall be convertible into shares of any denomination and with any privileges and conditions to redemption surrender drawing allotment of shares and attending (but not voting) at General Meetings. Debentures with the right to conversion into or allotment of shares shall be issued only with the consent of the Company in General Meetings accorded by special resolution. Register of charges to be kept The Board shall cause a proper Register to be kept in accordance with the provisions of Section 85 of the Act of all charges and floating charges affecting the property or assets of the Company or any of its undertakings and shall cause the requirements of Sections 77 79 and 81 to 87 (both inclusive) of the Act in that behalf to be duly complied with so far as they are required to be complied with by the Board. Register of Debenture holders The Company shall if at any time it issues debentures keep a Register and Index of Debenture holders in accordance with Section 88 of the Act. The Company shall have the power to keep in any Country outside India a Register of Debenture holders residing outside India in such manner as may be prescribed. Application to Debentures and other securities The provisions of the Articles shall apply mutatis mutandis to debentures bonds or other securities issued by the company.

**155. Dematerialization of Securities**

**Definitions** For the purpose of this Article Depository means a depository as defined in clause (e) of sub-section (1) of section 2 of the Depositories Act 1996. Beneficial Owner means a person or persons whose name is recorded in the Register maintained by a Depository under the Depository Act 1996. SEBI means the Securities and Exchange Board of India established under section 3 of the Securities Exchange Board of India Act 1992. Securities means the securities as defined in clause (h) of section 2 of the Securities Contracts (Regulation) Act 1956.

**Dematerialization of Securities** Notwithstanding anything contained in these Articles the Company shall be entitled to dematerialize its existing securities rematerialize its securities held in the Depositories and or offer its fresh securities in dematerialized form pursuant to the provisions of the Depositories Act 1996 and the rules framed there under if any.

**Option for investors** Every person subscribing to or holding securities of the Company shall have the option to receive securities certificates or to hold these securities with the Depository. Such a person who is the beneficial owner of the securities can at any time opt out of the Depository if permitted by the law in respect of any security in the manner and within the time prescribed issued to the beneficial owner the required certificate of the securities. If a person opts to hold his securities with a Depository the Company shall intimate such Depository the details of allotment of the security and on receipt of the information the depository shall enter in its records the name of the allottees as the beneficial owner of the securities. Securities in Depository to be in Fungible Form All securities held by a Depository shall be dematerialized and be in



92

fungible form. Nothing contained in Section 88 89 112 and 186 of the Act shall apply to a Depository in respect of the securities held by it on behalf of the Beneficial Owners. Rights and Liabilities of Beneficial Owner (a) Notwithstanding anything to the contrary contained in the Act or these Articles a Depository shall be deemed to be the registered owner for the purposes of effecting transfer of ownership of security on behalf of the beneficial owners. (b) Save as otherwise provided in (a) above the Depository as the registered owner of the securities shall not have any voting rights or any other rights in respect of the securities held by it. (c) Every person holding securities of the Company and whose name is entered as the beneficial owner in the records of the Depository shall be deemed to be a member of the Company. The beneficial owner of securities shall be entitled to all the rights and benefits and be subject to all the liabilities in respect of his securities which are held by a Depository. Service of Documents Notwithstanding anything to the contrary contained in the Act or Articles to the contrary where securities are held in a Depository the records of the beneficial ownership may be served by such Depository on the Company by means of electronic mode or by delivery of floppies or discs. Provisions of Articles to apply to shares held in Depository Nothing contained in Section 56 of the Act or these Articles shall apply to a transfer of securities effected by a transferor and transferee both of whom are entered as beneficial owners in the records of a Depository. Allotment of Securities dealt with in a Depository Notwithstanding anything in the Act or these Articles where securities are dealt with by the Depository the Company shall intimate the details thereof to the Depository immediately on allotment of such securities. Distinctive numbers of securities held in the depository Mode Nothing contained in the Act or these Articles regarding the necessity of having distinctive numbers on securities issued by the Company shall apply to securities held with a Depository. Register and Index of Beneficial Owners The Register and Index of Beneficial Owners maintained by a Depository under the Depositories Act 1996 shall be deemed to be the Register and Index of member and security holder for the purpose of these Articles. 156. Conversion of Shares into Stock and Reconversion Shares may be converted into stock and reconverted The Company in General Meeting may convert any paid up shares into stock and when any shares shall have been converted into stock these several holders of such stock may henceforth transfer their respective interest therein or any part of such interest in the same manner and subject to the same regulations as if no such conversion had taken place or as near thereto as circumstances will admit. The Company may at any time reconvert any stock into paid-up shares. Rights of stock holders The holders of stock shall according to the amount of stock held by them have the same rights privileges and advantages as regards dividends voting at meetings of the Company and other matters as if they held the shares from which the stock arose 157. Audit Accounts to be audited The Auditors of the Company shall be appointed or reappointed by the Comptroller and Auditor General of India and their remuneration rights and duties shall be regulated by Section 139 to 143 and 145 to 148 of the Act. Powers of the Comptroller and Auditor General of India. The Comptroller and Auditor General of India shall have the powers - (a) to direct the manner in which the Company's accounts shall be audited by the auditors appointed in pursuance of Article hereof and to give such auditors instruction in regard to any matter relating to the performance of their functions as such. (b) to conduct a



supplementary or test audit of the financial statement of the Company by such person or persons as he may authorize in this behalf and for the purposes of such audit to have access at all reasonable times to all accounts account books vouchers documents and other papers of the Company and to require information or additional information to be furnished to any person or persons so authorized on such matters by such person or persons and in such form as the Comptroller and Auditor General may by general or special order direct. Comments upon or supplement to audit report by the Comptroller Auditor General of India to be placed before the annual general meeting. The auditors aforesaid shall submit a copy of his/her audit report to the Comptroller and Auditor General of India who shall have the right to comment upon or supplement such audit report in such manner as he may think fit. Any such comments upon or supplement to the audit report shall be placed before the Annual General Meeting of the Company at the same time and in the same manner as the audit report. 158. Service of Documents Manner of Service of Documents A document or notice may be served or given by the Company to any Member either through speed post registered post or through electronic mode to his registered address or (if he has no registered address in India) to the address if any in India supplied by him to the Company for serving documents or notices on him. Notice is to be sent by the company through its authorized and secured computer programme which is capable of producing confirmation and keeping record of such communication addressed to the person entitled to receive such communication at the last electronic mail address provided by the member. The notice may be sent through e-mail as a text or as an attachment to e-mail or as a notification providing electronic link or Uniform Resource Locator for accessing such notice through in-house facility or its registrar and transfer agent or authorise any third party agency providing bulk e-mail facility. When notices or documents served on Members Where a document or notice is sent by post service of the document or notice shall be deemed to be effected by properly addressing prepaying and posting a letter containing the document or notice. When notice or notifications of availability of notice are sent by e-mail the company should ensure that it uses a system which produces confirmation of the total number of recipients e-mailed and a record of each recipient to whom the notice has been sent and copy of such record and any notices of any failed transmissions and subsequent re-sending shall be retained by or on behalf of the company as proof of sending. Provided that the member shall provide the updated email address to the company and for that company will provide an advance opportunity at least once in a financial year to the member to register his e-mail address and changes therein and such request may be made by only those members who have not got their email id recorded or to update a fresh email id. Notice will also be simultaneously updated in the website of the company. By Advertisement A document or notice advertised in a newspaper circulating in the neighborhood of the Registered Office shall be deemed to be duly served or sent on the day on which the advertisement appears on or to every Member who has no registered address in India and has not supplied to the Company an address within India for the serving of documents on sending the notices to him. Explanatory Statement of material facts under Section 102 need not be advertised but it will be mentioned in the advertisement that the Statement has been forwarded to the Members. On personal representatives etc. A document or notice



may be served or given by the Company or to the persons entitled to a share in consequence of the death or insolvency of a Member by sending it through the post in prepaid letter addressed to them by name or by the title of representative of the deceased or assignee of the insolvent or by any like description at the address (if any) in India supplied for the purpose by the persons claimed to be entitled or until such an address has been so supplied by serving the document or notice in any manner in which the same might have been given if the death or insolvency had not occurred. To whom documents or notices must be served or given Documents or notices of every General Meeting shall be served or given in same manner as herein before or to (a) every member of the company legal representative of any deceased member or the assignee of an insolvent member (b) the auditor or auditors of the company and (c) every director of the company. Members bound by documents or notices served on or given to previous holders Every person who by operation of law transfer or other means whatsoever shall become entitled to any share shall be bound by every document or notice in respect of such share which previously to his name and address being entered in the Register of Members shall have been duly served on or given to the person from whom he derives his title to such shares Documents or notice by Company and signature thereto Any document or notice to be served or given by the Company may be signed by a director or key managerial personnel or an officer of the company duly authorised by the Board in this behalf. Service of document or notice by Member All documents or notices to be served or given by Members on or to the Company or any officer thereof shall be served or given by sending it to the Company or Officer at the Office by post or through electronic mode under a certificate of posting or by registered post or through email. 159. Secrecy (a) Every Director Manager Auditor Treasurer Trustee member of a committee officer servant agent accountant or other person employed in the business of the Company shall if so required by the Directors before entering upon his duties sign a declaration pledging himself to observe strict secrecy respecting all transactions and affairs of the Company with the customers and the state of the accounts with individuals and in matters relating thereto and shall by such declaration pledge himself not to reveal any of the matters which may come to his knowledge in the discharge of his duties except when required so to do by the Directors or by law or by the person to whom such matters relate and except so far as may be necessary in order to comply with any of the provisions in these presents contained. (b) No Member shall be entitled to visit or inspect any work of the Company without the permission of the Directors or to require discovery of or any information respecting any details of the Company's trading or any matter which is or may be in the nature of a trade secret mystery of trade secret process or any other matter which may relate to the conduct of the business of the Company and which in the opinion of the Directors it would be expedient in the interest of the Company to disclose. 160. Copies of Memorandum and Articles of Association to be sent by the Company Copies of the Memorandum and Articles of Association of the Company and other documents referred to in Section 17 of the Act shall be sent by the Company to every Member at his request within seven days of the request on payment of such fees as may be prescribed.



## Subscriber Details

| S. No. | Subscriber Details                                                                                                                                                                                                                                                                                                                      |                             |           |                                                                                                               |            |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------|---------------------------------------------------------------------------------------------------------------|------------|
|        | *Name, Address, Description and Occupation                                                                                                                                                                                                                                                                                              | DIN / PAN / Passport number | *Place    | DSC                                                                                                           | Dated      |
| 1      | M/s PFC Consulting Limited<br>having its registered office at Urjanidhi, 1,<br>Barakhamba Lane,<br>Connaught Place, New Delhi-110001<br>Through Sh. Sachin Arora<br>S/o Sh. Prem Lal Arora R/o F5 1903, Supertech<br>Eco Village 1, Near<br>Park, Greater Noida ? 201301<br>(as authorized representative of PFC<br>Consulting Limited) | AKGPA1434J                  | New Delhi | Sachin Arora<br>Digitally signed by Sachin Arora<br>Date: 2024.01.11 17:18:15 +05'30'                         | 11/01/2024 |
| 2      | NEERAJ SINGH<br>S/o Sh. Dayashankar Singh<br>R/o Flat C-703, The Crescent Apartment, Plot<br>F-2, Sector-50,<br>Noida, Gautam Budh Nagar, UP-201301<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                                                                                                 | 08613892                    | New Delhi | Neeraj Singh<br>Digitally signed by Neeraj Singh<br>Date: 2024.01.11 17:13:10 +05'30'                         | 11/01/2024 |
| 3      | SANJAY KUMAR NAYAK<br>S/o Sh. Jagabandhu Nayak<br>R/o K 713, Jalvayu Tower, Sector 56 Gurgaon-<br>Haryana 122011<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                                                                                                                                    | 08197193                    | New Delhi | Sanjay Kumar Nayak<br>Digitally signed by Sanjay Kumar Nayak<br>Date: 2024.01.11 17:16:15 +05'30'             | 11/01/2024 |
| 4      | RISHAB JAIN<br>S/o Naveen Jain<br>R/o T-11, first floor, Green Park Extension, New<br>Delhi, 110016<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                                                                                                                                                 | 08485361                    | New Delhi | Rishab Jain<br>Digitally signed by Rishab Jain<br>Date: 2024.01.11 17:15:48 +05'30'                           | 11/01/2024 |
| 5      | MILIND MADHUSUDAN DAFADE<br>S/o Sh. Madhusudan Gurinath Dafade<br>R/o Aishwaryam Appt., Flat C-31, Sec-4, Plot<br>No. 17, Dwarka, New<br>Delhi-110078<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                                                                                               | 09587967                    | New Delhi | MILIND MADHUSUDAN DAFADE<br>Digitally signed by MILIND MADHUSUDAN DAFADE<br>Date: 2024.01.11 17:16:16 +05'30' | 11/01/2024 |
| 6      | SACHIN SHUKLA<br>S/o Sh. Raj Kumar Shukla<br>R/o 4th Floor, House No. 6, H1 Block, Good<br>Earth City Centre, south<br>City 2, Gurgaon - 122018<br>(As a Nominee of PFC Consulting Limited)<br>Occupation:- Service                                                                                                                     | 08613963                    | New Delhi | Sachin Shukla<br>Digitally signed by Sachin Shukla<br>Date: 2024.01.11 17:15:58 +05'30'                       | 11/01/2024 |
| 7      | MANOJ KUMAR RANA<br>S/o Sh. Sube Singh<br>R/o A-32/E, DDA Flats, Munirka, New<br>Delhi-110067<br>(As a Nominee of PFC Consulting Limited)                                                                                                                                                                                               | 02263302                    | New Delhi | Manoj Kumar Rana<br>Digitally signed by Manoj Kumar Rana<br>Date: 2024.01.11 17:17:09 +05'30'                 | 11/01/2024 |



|                      |  |  |  |  |
|----------------------|--|--|--|--|
| Occupation:- Service |  |  |  |  |
|----------------------|--|--|--|--|

## Signed before me

| Name Prefix<br>(ACA/FCA/ACS/<br>FCS/ACMA/<br>FCMA) | *Name of the<br>witness | *Address, Description<br>and Occupation                           | *DIN / PAN /<br>Passport<br>number /<br>Membership |       | DSC                                                                           | Dated      |
|----------------------------------------------------|-------------------------|-------------------------------------------------------------------|----------------------------------------------------|-------|-------------------------------------------------------------------------------|------------|
| FCS                                                | Naresh Kumar<br>Sinha   | 121, Vinayak Apartment,<br>C58/19, Sector-62,<br>Noida-201307, UP | 1807                                               | Noida | <small>Digitally signed by<br/>NARESH KUMAR<br/>SINHA<br/>DN: cn=1807</small> | 11/01/2024 |













Students who are the domicile of the Delhi only are eligible to apply for admission in the said course. The Candidates should have passed the senior secondary examination (10+2) not earlier than 2022 and secondary school examination (10th) not earlier than 2020. They should have passed from a recognized school/college in Delhi and recognized by CBSE on regular basis with Physics, Chemistry and Biology as main subjects obtaining not less than 50% marks for each of the subjects. 5% will be deducted from aggregate of PCB marks for every attempt in 10+2 while preparing the final merit list. The last two years of schooling should be in Delhi.

1. Seats :-  
There are total 15 seats out of which 03 seats are reserved for OBC candidates and 02 Seats for SC and 01 for ST candidate and 01 seat is reserved for EWS candidates.

2. Age:-  
Candidates applying for the said course must have attained the age of 18 years as on 06.11.2023, but should not be more than 22 years as on 06.11.2023. 04 Year age relaxation for SC/ST and 03 year's age relaxation for OBC candidate in Upper Age.

3. Duration of Course :-  
Two years course Selected candidates will be paid of Rs.500/- P.M. and will be required to execute the bond on Rs.100 Non-Judicial stamp paper for Rs.3000/- that is, if selected candidates drop out of the said course before its completion, he/she will be deposit the bond money and also submit all the spend money taken till date of Resignation.

4. Application for card can be obtained from General Branch, 5th floor MRD Building LNH from 21.10.2023 to 06.11.2023 on all working days and the same is also available on the website <http://www.lnh.delhi.govt.nic.in>.

Signature  
(MEDICAL DIRECTOR)  
Medical Director, LOK NAYAK HOSPITAL  
(Govt. of NCT of Delhi)  
New Delhi-110001



|                |             |              |
|----------------|-------------|--------------|
| 2022           | Year ended/ | (*) in lakhs |
| March 31, 2023 |             |              |
| 20             | (Audited)   |              |
| 143855         | NA          |              |
| 787,912        |             |              |
| 2.48           |             |              |
| 2.47           |             |              |
| 5.66           |             |              |
| 5.65           |             |              |

**CAUTION NOTICE**

Findoc Investment Private Limited, a company incorporated under the Companies Act, 1956 having its registered office at 10/10, Sector 34-A, Chandigarh - 160 022 and corporate office at 4th Floor, Kartar Bhawan, Near PAU, Ludhiana - 141 001, Punjab, (hereinafter, "the Company") forms part of the Findoc Group and is the owner and proprietor of inter alia, the trade marks "FINDOC", "FINDOC" and variations thereof.

The Findoc Group today comprises of Findoc Investment Private Limited, Findoc Commodities Pvt. Ltd. (now merged into Findoc Investmart), Findoc Sons, Findoc Wealthmart Private Limited, Findoc Infrabiz Private Limited, Findoc Finvest Private Limited and Findoc Capital Mart Private Limited.

By virtue of various trade mark registrations, extensive use, enormous sales, vast publicity, and the excellent quality of goods/services sold thereunder, the name/mark "FINDOC" (singly or in combination with other elements) has become distinctive of and exclusively identified with our client and their business/products/services alone.

Members of the trade and public are hereby cautioned that any unauthorized use of the aforementioned marks or any marks deceptively and/or confusingly similar thereto would constitute violation of the exclusive proprietary rights vested in our client and will be dealt with in accordance with the applicable law(s).

Members of the trade and public are further informed that apart from the entities mentioned in this notice, any other entity using the name/mark "FINDOC" would be in strict violation of our client's statutory and common law rights and strict action would be taken against such persons/entities.

The FINDOC Group has already filed complaints with the Registrar of Companies, Ministry of Corporate Affairs in India against entities using the name/mark "FINDOC" as part of their trade names/corporate names in violation of the FINDOC Group's exclusive statutory and proprietary rights in the trade/service mark/name FINDOC.

Any information in respect of misappropriation, misuse and/or piracy of our client's rights as aforementioned may be sent to

Remfry & Sagar (Attorneys-At-Law)  
E-mail: remfry-sagar@remfry.com

GURUGRAM : Remfry House at the Millennium Plaza, Sector-27, Gurgaon-122 009, New Delhi NCR

BENGALURU : 13<sup>th</sup> Floor, Manyata M2 Block, Manyata Embassy Business Park, Bengaluru-560 045

CHENNAI : Firsts Floor, Block B, Chaitanya Imperial Building, 610, Anna Salai, Teynampet, Chennai-600 018

MUMBAI : 6, Sheel Chambers, 10, Cawasji Patel Street, Fort, Mumbai-400 001

**PFC CONSULTING LIMITED**

(A wholly owned subsidiary of PFC Limited)

Regd. Office: First Floor, "Urjanidhi", 1, Barakhamba Lane, Connaught Place, New Delhi - 110001, (India) Fax: 011-23443990

**GLOBAL INVITATION (THROUGH E-BIDDING ONLY)****FOR SELECTION OF TRANSMISSION SERVICE PROVIDER ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR INTER-STATE TRANSMISSION PROJECTS**

PFC Consulting Limited, a wholly owned subsidiary of Power Finance Corporation Limited (A Government of India Undertaking), invites proposals for setting up of transmission projects on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal" (RFP).

Interested bidders may refer to the RFP notification and RFP documents available on the website <https://www.mstcecommerce.com> and <https://www.pfcindia.com>.

The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) from 19.10.2023 to one working day prior to bid submission for the projects mentioned below on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 9th Floor, Wing - A, Statesman House, Connaught Place, New Delhi - 110001, Tel.: 91-11-23443996; Fax: 91-11-23443990; e-mail: [pfcclt.pfcindia.com](mailto:pfcclt.pfcindia.com). The RFP documents can also be downloaded from <https://www.mstcecommerce.com> and <https://www.pfcindia.com>, however, in such case, interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/ purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/ amendments/ time extensions etc., if any. The important timelines in this regard are as follows:

| S. No | Name of Transmission Scheme                                                                                                              | Last Date for seeking clarifications (dd/mm/yyyy) | Last Date for submission of response to RFP (dd/mm/yyyy) | Date of opening of Response to RFP (dd/mm/yyyy) |
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Bid Process Coordinator

**PFC CONSULTING LTD.**

(A wholly owned subsidiary of PFC Ltd.)  
(A Govt. of India Undertaking)

An initiative of



Ministry of Power  
Government of India

Initiative Partner

Central Electricity Authority

|     |       |
|-----|-------|
| 1   | Pre   |
| 2   | Net   |
| 3   | Net   |
| 4   | Net   |
| 5   | Total |
| 6   | Paid  |
| 7   | Res   |
| 8   | Eor   |
| (a) |       |
| (b) |       |

|        |       |
|--------|-------|
| Sr. No | Part  |
| 1      | Pre   |
| 2      | Pre   |
| 3      | Pre   |
| 4      | Total |

Premium  
The new

|        |       |
|--------|-------|
| Sr. No | Part  |
| 1      | Total |
| 2      | Net   |
| 3      | Net   |
| 4      | Net   |
| 5      | Total |
| 6      | Paid  |
| 7      | Res   |
| 8      | Sec   |
| 9      | Net   |
| 10     | Paid  |
| 11     | Out   |
| 12     | De    |
| 13     | Eor   |
| (a)    |       |
| (b)    |       |
| (c)    |       |
| 14     | Total |
| 15     | De    |
| 16     | De    |
| 17     | Int   |

Notes  
1. New  
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3. Cap  
4. DSCR  
5. ISCR  
Total  
Note:  
a) The  
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b) For  
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ity," he said. Asked if the Congress would initiate a probe if voted to power, he said, "Surely, we would."

He said such a story would have brought down any government in the world but no action was being taken in India. Asked whether Congress-ruled states, which are paying subsidies to the poor in lieu of high electricity rates, would initiate a probe into this, Gandhi said, "We will look into it." On whether he has asked questions to NCP chief Sharad Pawar, who has met Adani recently, he shot back saying "Sharad Pawar is not the Prime Minister. Sharad Pawar is not protecting Mr Adani, Mr Modi is and that is why, I ask Mr Modi this question and not Mr Sharad Pawar."

He asked the PM to come clean on the issue. "I am trying to help the Prime Minister... come clean, start the investigation, defend your credibility."

the central financial assistance will be ₹8,310 crore. The project will be implemented by Power Grid Corporation of India Ltd. "The transmission line for evacuating this power will pass through Himachal Pradesh and Punjab up to Kaithal in Haryana, where it will be integrated with the National Grid," an official statement said. The project will also be connected to Leh-Alusteng-Srinagar line to provide power to Jammu and Kashmir.

The project will entail setting up of 975 km transmission lines and 5 GW capacity of HVDC terminal each at Pang (Ladakh) and Kaithal (Haryana). The project will help in achieving India's target of 500 GW installed capacity from renewables by 2030 and help in developing long-term energy security of the country, the government said. The project is in addition to Intra-State Transmission System Green Energy Corridor Phase-II, which is already under implementation in the states of Gujarat, Himachal Pradesh, Karnataka, Kerala, Rajasthan, Tamil Nadu and Uttar Pradesh for grid integration and power evacuation of around 20 GW of RE power and is expected to be completed by 2026. "The InSTS GEC-II scheme targets addition of 10,753 km of transmission lines and 27,546 MVA capacity of substations having estimated project cost of ₹12,031.33 crore and central financial assistance of ₹3,970.34 crore."

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## PFC CONSULTING LIMITED

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Regd. Office: First Floor, 'Urjanidhi', 1, Barakhamba Lane, Connaught Place, New Delhi - 110001, (India) Fax: 011-23443990

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An initiative of



Ministry of Power  
Government of India

Initiative Partner



Central Electricity Authority

FE - Chandigarh - 19/10/23



|    |                        |  |
|----|------------------------|--|
| 1  | Net Profit             |  |
| 2  | Exception              |  |
| 3  | Net Profit (after Exce |  |
| 4  | Net Profit Exception   |  |
| 5  | Total Com              |  |
| 6  | (Compris               |  |
| 7  | Paid up                |  |
| 8  | Reserves               |  |
| 9  | Earnings               |  |
| 10 | (a) Basic              |  |
| 11 | (b) Diluted            |  |

|                |               |
|----------------|---------------|
| Key numbers of |               |
| Sr. No         | Particulars   |
| 1              | Premium       |
| 2              | Profit before |
| 3              | Profit after  |
| 4              | Total Com     |

\* Premium Income  
\* The new Indian Agent

|        |                   |          |
|--------|-------------------|----------|
| Sr. No | Particulars       | Amount   |
| 1      | Total Income      |          |
| 2      | Net Profit / Com  |          |
| 3      | Net Profit / It / |          |
| 4      | Net Profit / It / |          |
| 5      | Total Com         |          |
| 6      | (after tax) comp  |          |
| 7      | Paid up           |          |
| 8      | Reserves          |          |
| 9      | Securities        |          |
| 10     | Net worth         | 5,660.00 |
| 11     | Paid up           |          |
| 12     | Outstanding       |          |
| 13     | Debt Equity       |          |
| 14     | Earnings          |          |
| 15     | (a) Basic         |          |
| 16     | (b) Diluted       |          |
| 17     | Capital Red       | 0,349.00 |
| 18     | Debt Service      | 1,265.55 |
| 19     | Interest Ser      |          |

Notes:

- Net worth repre
- Debt-Equity Ra
- Capital Redem
- Amendment Ru
- DSCR is calcula
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Note:

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- Disclosure Require
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| 14 | Capital Fac  |
| 15 | Debt Service |
| 16 | Debt Se      |



|           |        |        |        |    |          |         |          |         |     |     |      |      |      |      |
|-----------|--------|--------|--------|----|----------|---------|----------|---------|-----|-----|------|------|------|------|
| 1.780.066 | 45.510 | 45.510 | 45.008 | NA | 1.43.962 | 874.156 | 1.43.855 | 787.912 | 313 | 312 | 2.48 | 2.47 | 5.66 | 5.65 |
| 35.666    | NA     | NA     | NA     | NA | NA       | NA      | NA       | NA      | NA  | NA  | NA   | NA   | NA   | NA   |

Anandabod (Gujarati) - 19/10/23

### CAUTION NOTICE

Client: Findoc Investment Private Limited, a company incorporated under the Companies Act, 1956 having its registered office at 'SCO No 210/211, Sector 34-A, Chandigarh - 160 022' and corporate office at '4th Floor, Karar Bhawan, Noida: P.O. Box No. 01, Farozpur Road, Ludhiana - 141 001, Punjab' (hereinafter, 'the Company') forms part of the Findoc Group and is the sole owner and proprietor of *inter alia*, the trade marks 'FINDOC', 'FINDOC' and variations thereof.

The Findoc Group traces its inception back to the year 2009. In 2010 Findoc Investment Private Limited was incorporated which became a member of the National Stock Exchange of India (NSE) in 2012 followed by the membership of Bombay Stock Exchange (BSE) in 2013, and that of Multi Commodity Exchange of India (MCX) and National Commodity & Derivatives Exchange (NCDEX) in 2014.

Findoc Group has emerged as one of India's leading financial services providers that facilitates algo-trading, equity trading, derivative trading, commodity trading, currency trading, initial public offers (IPOs) and mutual fund investments.

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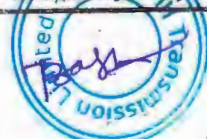
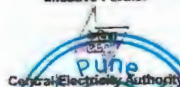
(A wholly owned subsidiary of PFC Ltd.)  
(A Govt. of India Undertaking)

An Initiative of



Ministry of Power  
Government of India

Initiative Partner





... Housing Board ... hold the dem- ... dwelling units in ... 41-A, those who were ... demolition notices, till ... further orders.

A public notice was issued in this regard on Wednesday.

In the notice, the the Chandigarh Housing Board has specified that structural stability of the dwelling units is being ascertained and the residents of duplex houses at Sector 41-A are hereby informed that the demolition of dwelling units to whom demolition orders have been served by the Chandigarh Housing Board, is hereby kept in abeyance till further orders.

On September 27, the CHB had directed the allottees to remove the violations and rectify their units within 10 days, failing which a demolition drive will be undertaken at the risk and cost of the persons concerned.

## 28 li mayor

aged to win 11 wards and Independent candidates too. Both the BJP and SAD d to open their accounts.

albir Sidhu was first ed MLA from Kharar con- ency in 2007. After delim- on, Mohali was carved out arar and he won the con- ency in 2012 and 2017. He ained the health minister ng vid-19 outbreak. 20 albir lost the elec- to Kulwant Singh with a gin of around 30,000 votes.

## ini's

uch happening on stage — enture, kings, magic, cesses, wars, and wishes," es Gyan. Chani was passion- y committed to refining, ving, and proliferating the orm of community theatre. egacy is alive, as this play like e plays created by the CEVA ma Repertory, has been cre- 11 on the process of umunity theatre, wherein all stages of the creation of a tre production, scripting, sic, dramatic rendering, and arsals happen in workshop de with the active contribu- of the individual partici- ts. The directors act as facili- rs and the intention at all es is to expand the learning ll the participants as well as iences, and through commu- y theatre processes and nes help them to voice their icerns without fear and to sent them to the audiences i loud and clear manner so t they are heard.

The play will be staged on ober 19 at Tagore Theatre at 0 pm.

### UNIVERSITY OF AGRICULTURAL SCIENCES & TECHNOLOGY OF KASHMIR MAIN CAMPUS SHALIMAR SRINAGAR - 190025 RECRUITMENT OF DEAN STUDENTS WELFARE

SKUAST-Kashmir a leading university in hill and mountain agriculture, ranked 4th best SAU with band "Excellent" rank in Atal Innovation ranking and ICAR accredited as "Grade A" university, invites Online applications from exceptionally bright & motivated Indian Nationals possessing an established record of high quality research, experience in Teaching & outreach activities for filling up of post of Dean Students Welfare by direct recruitment.

The detailed advertisement notice containing information with regard to eligibility requirements, age limit & other conditions is available on Official website of the University [www.skuastkashmir.co.in](http://www.skuastkashmir.co.in).

Date of commencement of online application forms is 25th of October, 2023 & last date of submission of online application forms is 24th of November, 2023.

Sd/-  
(Prof. T.H. Masoodi)  
Registrar

No. Au/Adm(GAD)/Adv-Dean/2023/10059-1118  
Dated: 04.10.2023

### PFC CONSULTING LIMITED

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Interested bidders may refer to the RFP notification and RFP documents available on the website <https://www.mstcecommerce.com> and <https://www.pfcclindia.com>.

The Bidders may obtain the RFP documents on all working days between 10:30 hrs (IST) and 16:00 hrs (IST) from 19.10.2023 to one working day prior to bid submission for the projects mentioned below on payment of a non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% from 9th Floor, Wing - A, Statesman House, Connaught Place, New Delhi - 110001. Tel: 91-11-23443996; Fax: 91-11-23443990; e-mail: [pfccl.itp@pfcclindia.com](mailto:pfccl.itp@pfcclindia.com). The RFP documents can also be downloaded from <https://www.mstcecommerce.com> and <https://www.pfcclindia.com>, however, in such case, interested party can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- or USD 7,000 plus applicable GST @18% separately. The survey report and clarification to RFP documents shall be issued to those bidders, who have obtained/purchased RFP documents by paying requisite fee at least one working day prior to bid submission date. Bidders should regularly visit website to keep themselves updated regarding clarifications/amendments/time extensions etc., if any. The important timelines in this regard are as follows:

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Bid Process Coordinator

PFC CONSULTING LTD.

(A wholly owned subsidiary of PFC Ltd.)  
(A Govt. of India Undertaking)

An Initiative of



Ministry of Power  
Government of India

Initiative Partner

Central Electricity Authority



IF - Chandigarh - 19/10/23

Z. Manish Kumar (Proprietor), ...  
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...footballer Lionel Messi holding the 2022 FIFA World Cup trophy in Kolkata on Wednesday. Partha Paul

In a related development, a Rampur court on Wednesday convicted Khan, his wife Tazeen Fatima and son Abdullah Azam in a 2019 fake birth certificate case, and sentenced them to seven years in jail.

ner manager Disha Salian.

"We have filed an intervention application saying we should be heard before any order is passed. We have said the PIL is not maintainable as the investigation in Sushant Singh Rajput matter is al-

"How can any order be passed in a PIL when a state machinery is already seized of the probe," he added. The PIL sought a direction to the CBI to probe Thackeray, a former Maharashtra minister, and for a comprehensive probe report to be submitted. Sushant Singh Rajput was found dead in his apartment in suburban Bandra on June 14, 2020.

While the Mumbai police registered an Accidental Death Report (ADR) case and started a probe, the actor's father in July lodged a complaint with the Bihar police alleging that Rajput's girlfriend Rhea Chakraborty and her family members had abetted his suicide. The case was later transferred to the CBI which is presently carrying out a probe in the city.

Sd/-  
Chief Construction Engineer  
Jeypore (R&B) Circle, Jeypore  
QIPR-34108/11/0034/2324

Central Electricity Authority

2. Manish Kumar (Proprietor) Sr. Doctor - Sr. Major PM  
Munger Dist. Munger 811201

1877

7" / 16" Debt: Sec

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IE - Mumbai - 19/10/23

**PFC CONSULTING LIMITED**

(A wholly owned subsidiary of PFC Limited)  
 Regd. Office: First Floor, "Ujanidhi", 1, Barakhamba Lane, Connaught Place,  
 New Delhi - 110001, (India) Fax: 911-23443990

**GLOBAL INVITATION (THROUGH E-BIDDING ONLY)  
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(A wholly owned subsidiary of PFC Ltd.)  
 (A Govt. of India Undertaking)

Ministry of Power  
Government of India

Central Electricity Authority

**SHRIRAM FINANCE LIMITED**

CIN No-L5191TN1979PLC007874

Reg. Off. Shri Tower, Plot No. 14A, South Phase, Industrial Estate, Guindy, Chennai-600032

Admin. Off. Shop No 102/103, Jaiswal Apartment, Palghar, Boisar Road,

Opp Mahindra Park, Navapuram, Boisar (w)-401501

**GOLD LOAN AUCTION NOTICE**

The below mentioned borrowers have been issued notices to pay their outstanding amounts towards the Loan against Gold Ornaments ("Facility") availed by them from Shriram Finance Ltd (SFL). Since the borrowers have failed to repay their dues under the facility, we will be conducting an auction of the Pledged Gold Ornaments on 26/10/2023 (date of auction) In the event any surplus amount is realised from this auction, the same will be refunded to the concerned borrower and if there is a deficit post the auction, the balance amount shall be recovered from the borrower through appropriate Legal Proceedings. SFL has the authority to remove any of the following accounts from the auction without prior intimation. Further SFL reserves the right to change the Auction Date without any prior notice, in the event of force majeure.

| Loan A/c Number  | Borrower Name        | Loan A/c Number  | Borrower Name           |
|------------------|----------------------|------------------|-------------------------|
| BOIHPJ2301110001 | JAYANT NAMDEV MOHITE | BOIHPJ2301180002 | SANTOSH SHIVPUJAN YADAV |

Auction will be held at the following address: Shriram Finance Ltd, Shop No 102 / 103, Jaiswal Apartment, Palghar, Boisar Road, Opp Mahindra Park, Navapuram, Boisar (w)- 401 501. Tel No: 9967200572. - Auction Time: 11.00 AM.

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PRESS TRUST OF INDIA

Industrial Estate, Guindy, Chennai-600032  
Neco Chambers, Plot No.48, Sector-11,

their outstanding amounts towards the  
 Shriram Finance Ltd (SFL). Since the  
 will be conducting an auction of the  
 surplus amount is realised  
 and if there is a deficit post the  
 through appropriate Legal  
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 without any prior notice, in the event

Borrower Name  
 SATISH KAILASH GUPTA  
 KAVITA DNYANESHWAR KOLI  
 Harnes Atrium "B" Wing 7th  
 22-45763627 / 022-45763629

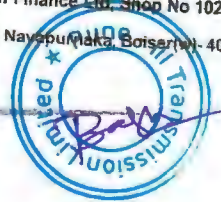
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interested to participate in the  
 3415195/Mr. Roshan Julkar  
 sd/-  
 ram Automail India Limited  
 Board Approved Auctioneer  
 for Shriram Finance Ltd

Industrial Estate, Guindy, Chennai-600032  
 3rd Main Road,

amounts towards the  
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Z. Manish Kumar (Proprietor) C/O



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**CIPAL CORPORATION**  
DISTRICT: TENDR (TNC/CRUP)  
Date: 17/10/23  
on invites tenders through E-tendering  
Ground, sewerage scheme to the left  
"Corporation". Tenders shall submit  
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ed through online at 3.30 P.M. on the

JE - Delhi - 19/10/23

## PFC CONSULTING LIMITED

(A wholly owned subsidiary of PFC Limited)

Office: First Floor, "Uranidhi", 1, Barakhamba Lane, Connaught Place,  
New Delhi - 110001, (India) Fax: 011-23443990.

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Government of India

Initiative Partner



Central Electricity Authority

WWW.INDIANEXPRESS.COM  
THE INDIAN EXPRESS, THURSDAY, OCTOBER



**The Brihanmumbai Supply & Transport Corporation**  
(OF THE BRIHANMUMBAI)

### TENDER

Extender is invited for the s

(1) Implementation of Integrated M  
System.

Note: For more details, log on to we  
PRO/AAM(M)/93/2023



**भारतीय कंटेनर कॉर्पोरेशन लिमिटेड**  
**CONTAINER CORPORATION OF INDIA LTD.**  
(A Navratna Company)  
NSIC New 7082 B-2, 2nd Floor, Connaught

### TENDER NOTICE (E-T)

Online tenders in Single Bid system are invited for Supply, Installation, Commissioning, Testing, and Maintenance of Electronic In-motion Weigh Bridge of 140 MT capacity (140T) excluding construction of weigh bridge room, Logistics Infrastructure Ltd. (PLI), Ahmednagar (VPO Ghat) Turnkey Basis including CAMC. The bid document can only be downloaded after [www.tenderindia.com/CCIL](http://www.tenderindia.com/CCIL).

|                           |                                       |
|---------------------------|---------------------------------------|
| Tender No.                | CONIA-IT/EMWB/FP                      |
| Estimated Cost            | ₹43,71,900/- (inclusive of 18% GST)   |
| Period of the contract    | 90 days for SITC and 90 days for CAMC |
| Earnest Money Deposit*    | ₹87,434/- (through e-bidding)         |
| Cost of Document*         | ₹1,000/- (inclusive of 18% GST)       |
| Tender Processing Fee*    | ₹2,500/- (inclusive of 18% GST)       |
| Date of Sale (Online)     | From 19.10.2023 at 10:30 hrs          |
| Date & Time of submission | 08.11.2023 up to 18:00 hrs            |
| Date & Time of Opening    | 10.11.2023 at 15:30 hrs               |

\*Through e-Payment  
CONCOR reserves the right to reject any or all the tenders  
log on to [www.tenderindia.com/CCIL](http://www.tenderindia.com/CCIL).

**"IMPORTANT"**  
Whilst care is taken prior to acceptance of advertising copy, it is not possible to verify its contents. The Indian Express (P) Limited cannot be held responsible for such contents, nor for any loss or damage incurred as a result of transactions with companies, associations or individuals advertising in its newspapers or Publications. We therefore recommend that readers make necessary inquiries before sending any monies or entering into any agreements with advertisers or otherwise acting on an advertisement in any manner whatsoever.

## CENTRAL UNIVERSITY OF PUNJAB

### RECRUITMENT NOTICE - NON-TEACHING POSTS

(Adv. No. CUPB/23-24/011 Date: 17.10.2023)

Online applications are invited from prospective & eligible candidates for various Non-Teaching posts on Regular/Contract/Deputation basis.

Link to apply online: <https://cupnt.samarth.edu.in>

Last date to apply online: 16.11.2023 (upto 5:00 PM)

For details visit [www.cup.edu.in](http://www.cup.edu.in)

REGISTRAR

VPO Ghuada, District Bathinda-151401 (Punjab), Email: [recruitment@cup.edu.in](mailto:recruitment@cup.edu.in)

विज्ञापन का हिंदी रूपान्तर विश्वविद्यालय की वेबसाइट पर उपलब्ध है।

### Form No. 15

Before the Debts Recovery Tribunal

Wing A, B & F (2<sup>nd</sup> Floor) Karpuri Thakur Sadan, Kendriya Karmchari Parishad (GPOA), Nagar Thana Ashiana Digha Road, Patna 800025  
O.A. NO. 386 Of 2023

Punjab National Bank, ..... APPLICANT  
M/s Chai Bagan and others, ..... DEFENDANTS

### SUMMONS

ISSUED UNDER RULES 23 (VII) OF THE DEBTS RECOVERY TRIBUNAL (PROCEDURE) RULES, 1993.

To,

1. M/S Chai Bagan and others, Prop- Mr. Manish Kumar, Munger, Bihar 811201

2. Manish Kumar (Proprietor) S/o Gauri Shankar Prasad, At- Bekapur, Po-



**भारतीय कंटेनर कॉर्पोरेशन लिमिटेड**  
**CONTAINER CORPORATION OF INDIA LTD.**  
(A Navratna Undertaking of Govt. of India)

Regd. Office & Investors' Relation Centre: CONCOR Bhawan, C-1, Mathura Road, New Delhi-110001 CIN: 163011D11533GOI0309151 Tel. Nos.: 011-2422 3600/6001/700  
E-mail: [investorrelations@concorindia.com](mailto:investorrelations@concorindia.com) Website: [www.concorindia.co.in](http://www.concorindia.co.in)

### NOTICE

Notice is hereby given pursuant to Regulation 47 read with Regulation 29 of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015, that a Meeting of the Board of Directors of the Company will be held on 2<sup>nd</sup> November, 2023 to inter-alia consider and approve the Unaudited Financial Results of the Company for the quarter and period ended on 30<sup>th</sup> September, 2023 and declaration of 2<sup>nd</sup> Interim Dividend for 2023-24, if any, to the shareholders. Further, in terms of SEBI (PIT) Regulations, 2015, as amended, the Trading Window for dealing in Equity Shares of the Company is closed for all designated persons & their immediate relatives for the period from 01<sup>st</sup> October, 2023 till the expiry of 48 hours after declaration of the Financial Results of the Company for the quarter and period ended on 30<sup>th</sup> September, 2023.

This information is also available on the website of the Company and the website of the Stock Exchanges where the Company's shares are listed viz. BSE Limited ([www.bseindia.com](http://www.bseindia.com)) and the National Stock Exchange of India Limited ([www.nseindia.com](http://www.nseindia.com)).

For & on behalf of Container Corporation of India Limited

Place: New Delhi  
Date: 10.10.2023

Executive Director (Finance) & CS



### SHER-E-KASHMIR

UNIVERSITY OF AGRICULTURAL

SCIENCES & TECHNOLOGY OF KASHMIR

MAIN CAMPUS SHALIMAR SRINAGAR - 190025

RECRUITMENT OF DEAN STUDENTS WELFARE

SKUAST-Kashmir a leading university in hill and

mountain agriculture, ranked 4<sup>th</sup> Best SAU with band

"Excellent" rank in Atal Innovation ranking and ICAI

accredited as "Grade A" university invites Online





Europe's largest buyout firms, this week said it was making plans to hold private stock sales for its portfolio companies given the struggles of the IPO market.

Firms are also increasingly using continuation funds, which involves a firm selling an asset from an older fund to one of its newer ones. Investors in the funds are typically offered the chance to cash out during these asset transfers.

A recent survey of 200 UK-based private equity executives found that continuation funds were viewed as a better option for private equity firms looking to monetise their deals than an IPO or running an auction of an asset.

One industry executive said that buyout firms were still seeking "2021 prices" for portfolio companies, while potential acquirers and public investors

in its long-term relationship with Treasuries as investors flee to haven asset.

Prices of the precious metal have surged as much as 10 per cent to \$1,996 per troy ounce, hitting a 15-month high, after Hamas launched attacks on Israel a fortnight ago.

With the region at risk of tipping into wider conflict, investors have bought gold, which is regarded as a store of value during times of geopolitical and market uncertainty.

"It's the geopolitical risk premium that has come in for gold," said Nick

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An Initiative of  
  
Ministry of Power  
Government of India

Initiative Partner  
  
Central Electricity Authority

Regional Operational Program ERDF-ESF Puglia 2014 - 2020 "Cultural, natural and tourism attractions" Axis VI - Environmental protection and promotion of natural and cultural resources - Action 5.8 interventions for the competitive repositioning of tourism destinations  
Unified Project code: B39D20062280009  
NOTICE  
September 27, 2023

SUBJECT:  
- Notice of Public Call: "Expressions of interest for the procurement of proposals for advertising communication services under exclusive administration, pursuant to art. 63, paragraph 2, letter b), n. 3, of Italian Legislative Decree no. 50/2016 and subsequent amendments for the national and regional Communication Plan of Destination Puglia" (ref. D.D.G. n. 183 of 04/26/2023)  
- Notice of Public Call: "Expression of interest for procurement of proposals for advertising communication services under exclusive administration, pursuant to art. 63, paragraph 2, letter b), n. 3, of the Italian legislative decree legislative decree no. 50/2016 and subsequent amendments for the international communication campaign of Destination Puglia" (ref. DDG. 185 of 04/27/2023)  
IT IS HEREBY COMMUNICATED THE FOLLOWING  
That the financial resources assigned to the aforementioned calls have run out of capacity. Therefore, until further financial resources are allotted to A.R.E.T. Puglia in order to be assigned to the aforementioned calls, this Agency is not in a position to evaluate further proposals (i.e. expressions of interest)  
The Sole Project Officer in Charge - Olga Buono  
The General Director - Luca Scandale

## Tesla's Cyb

Musk admits to 'challenges' in hitting production targets for hotly anticipated new model

PETER CAMPBELL — LONDON

Jim Farley remembers the first time he saw a Tesla Cybertruck. Ford dominated the North American pick-up market so its chief executive was curious to look at the competition.

"I think the Cybertruck looks like it does for a combination of many reasons, partly aero[dynamics]... but actually most of it is to reduce investment," he told the Financial Times.

The unusual angular design meant Tesla could make the Cybertruck's roof from a single piece of metal, he said. This would cut the cost of manufacturing, he added, but was likely to make it "hard to scale".

Elon Musk seems to agree. Last week the Tesla boss warned of "enormous challenges in reaching volume production" on the model, which was first unveiled four years ago. "This is simply normal... when you've got a product with a lot of new technology or any brand new vehicle programme, but especially one that is as different and advanced as the Cybertruck," he told investors. "We dug our own grave."

The Cybertruck is the first new Tesla vehicle since the Model Y in 2020, at a time when profits have fallen because of price cuts to spur demand.

Its Semi haulage truck and Roadster sports car are not yet in production, and the anticipated lower-price Model 2 is not expected before 2026.

When the Cybertruck does arrive —



## Annexure A5

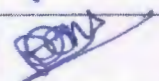
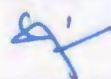
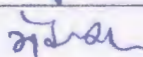
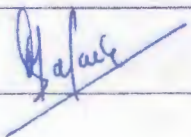
Date: October 17, 2024

## CERTIFICATE BY THE BID EVALUATION COMMITTEE

**Sub.: Selection of Successful Bidder as Transmission Service Provider to establish "Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part D".**

It is hereby certified that:

1. The entire bid process has been carried out in accordance with the "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging competition in development of the Transmission Projects" issued by Ministry of Power, Govt. of India under Section 63 of the Electricity Act, 2003 and as amended from time to time.
2. **Adani Energy Solutions Limited** emerged as the Successful Bidder after the conclusion of e-reverse bidding process with the lowest Quoted Transmission Charges of Rs.5,892.41 million per annum.
3. The quoted tariff is higher than the Levelised Tariff calculated based on CERC norms considering the capital cost for the Project "Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part D" as assessed by Cost Committee. The quoted tariff discovered through e-reverse bidding process is acceptable.

| Name of Committee Member                                                                     | Signature                                                                             |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Sh. Rajesh Kumar Singh, General Manager, SBI, CCGRO-II, New Delhi –Chairman                  |  |
| Sh. P. D. Lone, SE(Operations), WRPC- Member                                                 |  |
| Sh. Amit Naik, SE (Systems), MSETCL - Member                                                 |  |
| Sh. Bhanwar Singh Meena, Director (PSE&TD), Central Electricity Authority- Member            |  |
| Sh. B.S. Bairwa, Chief Engineer (PSPA-II), Central Electricity Authority, New Delhi – Member |  |
| Sh. Milind M. Dafade, Chairman, Pune III Transmission Limited, New Delhi - Convener Member   |  |



## Annexure A6



पावर फाइनेंस कॉर्पोरेशन लिमिटेड  
(पावर फाइनेंस कॉर्पोरेशन लिमिटेड की पूर्णतः स्वामित्ववाली सहायक कंपनी)  
**PFC CONSULTING LIMITED**  
(A wholly owned Subsidiary of Power Finance Corporation Ltd.)

Ref. No. 04/24-25/ITP-75/RFP

October 21, 2024

To,  
Mr. Avijit Roy  
Adani Energy Solutions Limited,  
3<sup>rd</sup> Floor, South Wing,  
Adani Corporate House, Shantigram,  
Ahmedabad-382421, Gujarat

E-mail: [avijit.roy@adani.com](mailto:avijit.roy@adani.com)

**Sub.: Independent Transmission Project (ITP) "Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part D"- Letter of Intent (LoI).**

Dear Sir,

We refer to:

1. The Request for Proposal document dated October 19, 2024 issued to 'Adani Energy Solutions Limited' as regards participation in the international competitive bidding process for Transmission Scheme for "Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part D", and as amended till the bid deadline including all correspondence/ clarifications / amendments exchanged between 'Adani Energy Solutions Limited' and PFC Consulting Limited in regard thereto (hereinafter collectively referred to as the "Final RFP");
2. The offer of 'Adani Energy Solutions Limited' by way of a Technical Bid pursuant to (1) above submitted on April 19, 2024 in response to the Final RFP.
3. The offer of 'Adani Energy Solutions Limited' by way of Financial Bid-Initial Offer submitted on April 19, 2024 in response to the Final RFP.
4. The offer of 'Adani Energy Solutions Limited' by way of a Financial Bid-Final Offer Submitted during e-Reverse Auction process concluded on September 28, 2024 in response to the Final RFP.
5. The Technical Bid as at S.No. (2) above and the Financial Bid as at S.No. (3) & (4) above, hereinafter collectively referred to as the "Bid".

This is to inform you that the process of evaluating bid received pursuant to the Final RFP, including the Bid, has been concluded. We are pleased to inform you that your proposal and offer received by way of the "Bid" has been accepted and 'Adani Energy Solutions Limited' is hereby declared as the Successful Bidder as per Clause 3.6.1 of the Final RFP for the above project and consequently, this Letter of Intent (hereinafter referred to as the "LoI") is being issued.

This LoI is based on the Final RFP and you are requested to please comply with the following:

- a) Acknowledging its issuance and unconditionally accepting its contents and recording "Accepted unconditionally" under the signature of your authorized signatory on each page of the duplicate copy of this letter attached herewith and returning the same to PFC Consulting Limited within seven (07) days of the date of issuance of LoI. This LoI is issued to you in duplicate.

पंजीकृत कार्यालय : प्रथम तल, "ऊर्जा निधि", 1, बाराखम्बा लेन, कनॉट प्लेस, नई दिल्ली-110001  
Regd. Office : 1<sup>st</sup> Floor, "URJANIDHI", 1, Barakhamba Lane, Connaught Place, New Delhi-110001  
कंपनी मुख्यालय : नौवाँ तल, (ए विंग), स्टेट्समैन हाउस, बाराखम्बा रोड, कनॉट प्लेस, नई दिल्ली-110001 दूरभाष : 011-23443900 फ़ैक्स : 011-23443990  
Corporate Office : 9<sup>th</sup> Floor (A-Wing), Stateman House, Connaught Place, New Delhi-110001 Phone : 011-23443900 Fax : 011-23443990

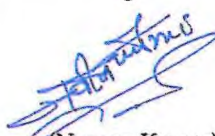


- b) Completion of various activities as stipulated in the Final RFP including in particular Clause 2.15.2, Clause 2.15.3 and Clause 2.15.4 of the Final RFP, within the timelines as prescribed therein.

It may be noted that PFC Consulting Limited has the rights available to them under the Final RFP, including rights under Clause 2.15.5 and Clause 3.6.3 thereof, upon your failure to comply with the aforementioned conditions.

As you are aware, the issuance and contents of this LoI are based on the Bid submitted by you as per the Final RFP including the Transmission charges and other details regarding the Scheduled COD as contained therein. The Quoted Transmission Charges as submitted by you and the Scheduled COD of each transmission element and the Project as agreed by you in your Bid, as per Annexure 21 and Format-1 of Annexure 8 respectively of the Final RFP is annexed herewith as **Schedule-A** and incorporated herein by way of reference.

Yours sincerely,  
For PFC Consulting Limited

  
(Naveen Kumar)  
General Manager

Enclosures:

- **Schedule A** – Quoted Transmission Charges and the Scheduled COD of each Transmission Element and the Project submitted in your Bid, as per Annexure 21 and Format-1 of Annexure 8 respectively of the Final RFP

**Copy to:**

1. **Chairperson and Managing Director, Power Finance Corporation Limited, "Urjanidhi", 1, Barakhamba Lane, Connaught Lane, New Delhi – 110 001**
2. **Director (Transmission), Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi- 110001**
3. **Chief Engineer (PSPA-I) and Member Secretary (NCT), Central Electricity Authority, 3<sup>rd</sup> Floor, Sewa Bhawan, R.K. Puram, New Delhi – 110066**
4. **Chief Operating Officer (COO), Central Transmission Utility of India Limited (CTUIL), 5th-10th Floor, Ircon International Tower-1, Sector-32, Gurugram-122001**
5. **Secretary, Central Electricity Regulatory Commission, 6th, 7th & 8th Floors, World Trade Center, Tower-B, Nauroji Nagar, New Delhi – 110029**



**SCHEDULE - A**

(Page 1 of 2)

**1. Quoted Transmission Charges as per Annexure-21-Format For Financial Bid****Quoted Transmission Charges: Rs.5,892.41 Million Per Annum**



**SCHEDULE-A**

(Page 2 of 2)

**2. Scheduled COD of each transmission Element and the Project as per Format 1 of Annexure-8 of RFP**

| S. No. | Name of the Transmission Element                                                                                                                                                                | Scheduled COD in months from Effective Date | Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project | Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element                   |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| 1.     | Establishment of 2x1500 MVA, 765/400 kV and 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor.                                    | 24 months                                   | 29.55%                                                                                               | All elements of the scheme are required to be commissioned simultaneously as their utilization is dependent on each other. |
| 2.     | <ul style="list-style-type: none"> <li>Boisar-II – Pune-III 765 kV D/C line</li> <li>2 Nos. of 765 kV line bays at Boisar-II for termination of Boisar-II – Pune-III 765 kV D/C line</li> </ul> |                                             | 58.60%                                                                                               |                                                                                                                            |
| 3.     | 330 MVAR switchable line reactors at Pune-III end of Boisar-II – Pune-III 765 kV D/C line (with NGR bypass arrangement).                                                                        |                                             |                                                                                                      |                                                                                                                            |
| 4.     | LILO of Narendra (New) – Pune (GIS) 765 kV D/C line at Pune-III                                                                                                                                 |                                             |                                                                                                      |                                                                                                                            |
| 5.     | 330 MVAR switchable line reactors at Pune-III end of Narendra (New) – Pune-III (GIS) 765 kV D/C line (with NGR bypass arrangement).                                                             |                                             | 11.03%                                                                                               |                                                                                                                            |
| 6.     | LILO of Hinjewadi-Koyna 400 kV S/C line at Pune-III (GIS) S/s                                                                                                                                   |                                             |                                                                                                      |                                                                                                                            |
| 7.     | 80 MVAR, 420 kV switchable Line Reactor at Pune-III (GIS) end of Pune-III (GIS) – Koyna 400 kV line formed after above LILO (with NGR bypass arrangement).                                      |                                             | 0.82%                                                                                                |                                                                                                                            |



*Signature*

## Annexure A7



STATE BANK OF INDIA  
CORPORATE ACCOUNT  
GROUP, AHMEDABAD  
58 SHRIMALI SOCIETY,  
NAVRANGPURA  
AHMEDABAD, INDIA -  
380009

Tel No.  
Fax No. 91-79-26561178  
SWIFT No. SBININBB219  
PIN Code 380009

16-11-2024

To,  
CENTRAL TRANSMISSION UTILITY OF  
INDIA LIMITED, 5TH TO 10TH FLOOR, IRCON INTERNATIONAL TOWER, TOWER NO 1, PLOT NO 16, SECTOR  
32, GURGAON, HARYANA 122003

DEAR SIR(S),

|                              |                                 |
|------------------------------|---------------------------------|
| Guarantee Number             | 0415224BG0B00589                |
| Date of Issue                | 16-11-2024                      |
| Guarantee Amount             | INR 700,000,000.00              |
| Date of Expiry               | 31-03-2027                      |
| Date of Claim                | 31-03-2028                      |
| Applicant Name               | ADANI ENERGY SOLUTIONS LIMITED  |
| E Stamp Certificate No.      |                                 |
| E Stamp Issuance Date & Time |                                 |
| State of Execution           |                                 |
| Stamp Duty Type/Article No.  |                                 |
| Bank Guarantee Amount        | INR 700,000,000.00              |
| Amount of Stamp duty Paid    | 0.00                            |
| Issuing Bank Branch          |                                 |
| Bank Guarantee Beneficiary   | CENTRAL TRANSMISSION UTILITY OF |

We confirm having Issued / Extended the captioned Bank Guarantee in your favour on behalf of our above named Constituent and the same signed by the officers of the Bank.

YOURS FAITHFULLY

AUTHORISED SIGNATORY - 1

\*AUTHORISED SIGNATORY - 2

(\*2nd signatory required, if BG is for Rs. 50000/- and above)

Nov 16, 2024 11:11 AM





## Eximbills Enterprise SWIFT

**Main Reference NO:** 0415224BG0B00589 **Transaction Reference NO:** 0415224BG0B00589  
**Unit Code:** 04152 **Operator:** 1002416  
**Module Name:** BGIF **Function Name:** Inland\_Issue\_Bank\_Guarantee  
**Transaction Date:** 16-11-2024 **Transaction Time:** 11:11:48  
**Event Time:** 1 **Release by**  
**Release Date** **Release Time:**

**AckFlag :** **NotifyFlag :**  
**81** **Outgoing SWIFT Header 1**  
 F01SBIN000415250000000000  
**82** **Receiver's BIC Code**  
 I760SBIN0017313N  
**7020:** **Transaction Reference Number (Issuing Bank Guarantee Number)**  
 0415224BG0B00589  
**7011:** **Type of Bank Guarantee : Performance, Financial, Others**  
 PERFORMANCE  
**7025:** **Amount of Guarantee Currency Code Amount**  
 INR7000000000,  
**7026:** **Guarantee Validity Guarantee From Date Guarantee To Date**  
 2024111620270331  
**7027:** **Guarantee Effective Date**  
 20241116  
**7029:** **End date for lodgement of claim**  
 20280331  
**7030:** **Place of lodgement of claim**  
 CCG AHMEDABAD  
**7031:** **Issuing Branch IFSC**  
 SBIN0004152  
**7032:** **Issuing branch name and address**  
 STATE BANK OF INDIA  
 58 SHRIMALI SOCIETY, NAVRANGPURA  
 AHMEDABAD ,INDIA - 380009  
**7033:** **Name of applicant and his details**  
 ADANI ENERGY SOLUTIONS LIMITED  
 ADANI CORPORATE HOUSE  
 SHANTIGRAM,NR VAISHNODEVI CIRCLE  
 S G HIGHWAY AHMEDABAD  
**7034:** **Name of Beneficiary and his details**  
 CENTRAL TRANSMISSION UTILITY OF  
 INDIA LIMITED, 5TH TO 10TH FLOOR,  
 IRCON INTERNATIONAL TOWER, TOWER  
 NO 1, PLOT NO 16, SECTOR 32,  
 GURGAON, HARYANA 122003



7035: Beneficiary IFSC

SBIN0017883

7036: Beneficiary branch name and address

STATE BANK OF INDIA  
4TH AND 5TH FLR RED FORT CAPITAL  
PARSVNATH TOWER GOLE MARKET  
NEW DELHI

7040: Stamp Duty Electronically Paid (Y/N)

N

7046: Date of Payment

20241116

7047: Place of Payment

CORPORATE ACCOUNTS DEPT, ANKURDABAD

7048: e-Bank Guarantee to be held in Demat Form(Y/N)

N

20Z: Transaction Reference Number

SBIN123456789



BHUMIKA VAGHU  
S.S. No. V4231







IN-GJ78608710470190W



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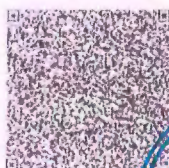
Government of Gujarat

Certificate of Stamp Duty

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**Certificate Issued Date** : 09-Oct-2024 04:04 PM  
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**Unique Doc. Reference** : SUBIN-GJGJ1333450472804801066327W  
**Purchased by** : STATE BANK OF INDIA  
**Description of Document** : Article 32 Letter of Guarantee  
**Description** : BANK GUARANTEE  
**Consideration Price (Rs.)** : 0  
 (Zero)  
**First Party** : STATE BANK OF INDIA  
**Second Party** : Not Applicable  
**Stamp Duty Paid By** : STATE BANK OF INDIA  
**Stamp Duty Amount(Rs.)** : 300  
 (Three Hundred only)

0415224B40B00589  
15/11/2024

BHUMIKA VAGHU  
S.S. No. V4231



P

0020916343

Disclaimer &amp; Terms

The application of this stamp certificate is valid only as per the conditions mentioned in the Stamp & Seal Act, 1962. Any alteration or tampering on this Certificate and its contents by the website Stamp App renders it invalid.

BG NO: 0415224BG0B00589

DATE: 16.11.2024

## CONTRACT PERFORMANCE GUARANTEE

To,  
ED (BCD And Regulatory),  
Central Transmission Utility of India Limited,  
5th to 10th Floor,  
Irrcon International Tower, Tower no-1,  
Plot no -16 , Sector-32, Gurugram,  
Haryana-122003

In consideration of the M/s **Adani Energy Solutions Limited** having its registered office at **Adani Corporate House, Shantigram, Nr. Vaishnodevi Circle, SG Highway, Ahmedabad -382421** agreeing to undertake the obligations under the Transmission Service Agreement to be executed on dated **19.11.2024** and the other RFP Project Documents and the Central Transmission Utility of India Limited and PFC Consulting Limited, agreeing to execute the RFP Project Documents with the Selected Bidder, regarding setting up the Project, the **State Bank of India**, constituted under the State Bank of India Act 1955 and having its Registered office at Nariman Point, Mumbai and having one of its branches at State Bank of India, Commercial Clients Group Branch, 58, Shrimali Society, Near Mithakhali Six Roads, Navrangpura, Ahmedabad, Gujarat – 380009 (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to **Central Transmission Utility of India Limited** (being the Nodal Agency) having address at 5th to 10th Floor, Irrcon International Tower, Tower no-1, Plot no -16 , Sector-32, Gurugram, Haryana-122003, forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding **Rupees Seventy Crore (Rs. 70 Crore)** only on behalf of M/s **Adani Energy Solutions Limited**.

This guarantee shall be valid and binding on the Guarantor Bank up to and including and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to **Rupees Seventy Crore (Rs. 70 Crore)** only. Our Guarantee shall remain in force until **31.03.2027**. The Nodal Agency shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from the Central Transmission Utility of India Limited, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to the Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by **Adani Energy Solutions Limited, PUNE- III TRANSMISSION LIMITED**, and/or any other person. The Guarantor Bank shall not require the Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against the Nodal Agency in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein





BG NO: 0415224BG0B00589

DATE: 16.11.2024

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly the Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against **PUNE- III TRANSMISSION LIMITED** or **Adani Energy Solutions Limited**, as the case may be, to make any claim against or any demand on **PUNE- III TRANSMISSION LIMITED** or **Adani Energy Solutions Limited**, as the case may be, or to give any notice to **PUNE- III TRANSMISSION LIMITED** or **Adani Energy Solutions Limited**, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against **PUNE- III TRANSMISSION LIMITED** or **Adani Energy Solutions Limited**, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

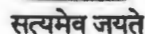
Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to **Rupees Seventy Crore (Rs. 70 Crore)** only and it shall remain in force until **31.03.2027**, with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by **M/s Adani Energy Solutions Limited**. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if the Nodal Agency serves upon us a written claim or demand.

Notwithstanding anything to the contrary contained herein

- a) Our liability under this Guarantee shall not exceed **Rupees Seventy Crore (Rs. 70 Crore)**.
- b) This Bank Guarantee shall be valid up to **31.03.2027** (being the date of expiry of the guarantee)
- c) We are liable to pay the guarantee amount only and only if we receive from you a written demand on or before **31.03.2028** (date, inclusive of claim period, if any)





**INDIA NON JUDICIAL**

**Government of National Capital Territory of Delhi**

£500

## e-Stamp

|                           |                                        |
|---------------------------|----------------------------------------|
| Certificate No.           | : IN-DL87979411647488W                 |
| Certificate Issued Date   | : 18-Nov-2024 01:32 PM                 |
| Account Reference         | : IMPACC (IV)/ dl960303/ DELHI/ DL-DLH |
| Unique Doc. Reference     | : SUBIN-DL96030324137086216018W        |
| Purchased by              | : PFC CONSULTING LIMITED               |
| Description of Document   | : Article 5 General Agreement          |
| Property Description      | : Not Applicable                       |
| Consideration Price (Rs.) | : 0<br>(Zero)                          |
| First Party               | : PFC CONSULTING LIMITED               |
| Second Party              | : Not Applicable                       |
| Stamp Duty Paid By        | : PFC CONSULTING LIMITED               |
| Stamp Duty Amount(Rs.)    | : 500<br>(Five Hundred only)           |



Please write or type below this line

This Stamp Paper Forms Part of enclosed Share Purchase Agreement executed between **PFC CONSULTING LIMITED, PUNE- III** **TRANSMISSION LIMITED** and **ADANI ENERGY SOLUTIONS LIMITED.**



**Statutory Alert:**

- Statutory Alert:**
1. The authenticity of this Stamp certificate should be verified at '[www.shcilestamp.com](http://www.shcilestamp.com)' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
  2. The onus of checking the legitimacy is on the users of the certificate.
  3. In case of any discrepancy please inform the Competent Authority.

[illegible]





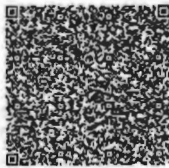
सत्यमेव जयते

INDIA NON JUDICIAL

Government of National Capital Territory of Delhi

e-Stamp

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 Purchased by : PFC CONSULTING LIMITED  
 Description of Document : Article 5 General Agreement  
 Property Description : Not Applicable  
 Consideration Price (Rs.) : 0  
 (Zero)  
 First Party : PFC CONSULTING LIMITED  
 Second Party : Not Applicable  
 Stamp Duty Paid By : PFC CONSULTING LIMITED  
 Stamp Duty Amount(Rs.) : 500  
 (Five Hundred only)



Please write or type below this line

IN-DL87980199659874W

This Stamp Paper Forms Part of enclosed Share Purchase Agreement  
 executed between **PFC CONSULTING LIMITED, PUNE- III**  
**TRANSMISSION LIMITED** and **ADANI ENERGY SOLUTIONS LIMITED.**



## Statutory Alert:

1. The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate
3. In case of any discrepancy please inform the Competent Authority.





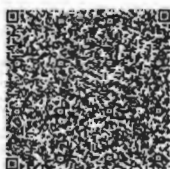
INDIA NON JUDICIAL

## Government of National Capital Territory of Delhi

₹200

e-Stamp

Certificate No. : IN-DL87983054676713W  
 Certificate Issued Date : 18-Nov-2024 01:35 PM  
 Account Reference : IMPACC (IV)/ d1960303/ DELHI/ DL-DLH  
 Unique Doc. Reference : SUBIN-DL96030324149740159287W  
 Purchased by : PFC CONSULTING LIMITED  
 Description of Document : Article 5 General Agreement  
 Property Description : Not Applicable  
 Consideration Price (Rs.) : 0  
 (Zero)  
 First Party : PFC CONSULTING LIMITED  
 Second Party : Not Applicable  
 Stamp Duty Paid By : PFC CONSULTING LIMITED  
 Stamp Duty Amount(Rs.) : 200  
 (Two Hundred only)



Please write or type below this line

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3. In case of any discrepancy please inform the Competent Authority.



**Dated November 19, 2024**

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**SHARE PURCHASE AGREEMENT**

**BETWEEN**

**PFC CONSULTING LIMITED**

**AND**

**PUNE- III TRANSMISSION LIMITED**

**AND**

**ADANI ENERGY SOLUTIONS LIMITED**

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## SHARE PURCHASE AGREEMENT

This **SHARE PURCHASE AGREEMENT** ('Agreement') made this 19<sup>th</sup> Day of November 2024 at New Delhi by and between:

**PFC CONSULTING LIMITED** (a wholly owned subsidiary of Power Finance Corporation Ltd.), a company incorporated under the Companies Act, 1956, with CIN No. U74140DL2008GOI175858 having its registered office at First Floor, "Urjanidhi", 1 Barakhamba Lane, Connaught Place, New Delhi 110001, (hereinafter referred to as "**PFCCL**", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **FIRST PART**;

**AND**

**PUNE- III TRANSMISSION LIMITED**, a company incorporated under the Companies Act, 2013, with CIN No. U42201DL2024GOI425330 having its registered office at First Floor, "Urjanidhi", 1 Barakhamba Lane, Connaught Place, New Delhi 110001, (hereinafter referred to as "**Company**" which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **SECOND PART**; and

**AND**

**ADANI ENERGY SOLUTIONS LIMITED**, a company incorporated under the Companies Act, 1956 with CIN No. L40300GJ2013PLC077803 having its registered office **Adani Corporate House, Shantigram Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad, Gujarat-382421** (hereinafter referred to as "**Selected Bidder**" which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **THIRD PART**.

### WHEREAS:

A. The Ministry of Power, Government of India, vide its Gazette no. **CG-DL-E-06092023-248580** dated **September 04, 2023** has notified PFC Consulting Limited to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for "**Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part D**" through tariff based competitive bidding process (hereinafter referred to as the "Project").

B. In accordance with the Bidding Guidelines, PFCCL had initiated a Bid Process through issuance of RFP documents for selecting a Successful Bidder to build, own, operate and transfer the Project in accordance with and on the terms and conditions mentioned in the RFP Project Documents (as defined hereinafter).

C. PFCCL has incorporated the Company and PFCCL along with the Nominees hold One hundred per cent (100 %) of total issued and paid up equity share capital of the Company.



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- D. PFCCL has initiated the development of the Project and has obtained survey report, certain clearances, consents and permits as specified in the RFP regarding the Project.
- E. Pursuant to the said Bid Process, **Adani Energy Solutions Limited** has been identified as the Selected Bidder vide Letter of Intent dated **October 21, 2024** issued by the PFCCL in favor of the Selected Bidder.
- F. As envisaged in the RFP, the Shares Seller (as defined hereinafter) has agreed to sell the Sale Shares (as defined hereinafter) to the Selected Bidder and the Selected Bidder has agreed to purchase the Sale Shares from the Shares Seller, subject to and on the terms and conditions set forth in this Agreement.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL COVENANTS AND AGREEMENTS SET FORTH IN THIS AGREEMENT AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, THE PARTIES HEREBY AGREE AS FOLLOWS:**

# 1. DEFINITIONS

- 1.1 Capitalised terms in this Agreement, unless defined in this Agreement shall, in so far as the context admits, have the same meaning in this Agreement as has been ascribed to them in the Transmission Service Agreement.
- 1.2 Additionally, the following terms shall have the meaning hereinafter respectively assigned to them herein below:
- (i) **"Acquisition Price"** shall mean **INR 18,78,79,037/- (Rupees Eighteen Crore Seventy Eight Lakh Seventy Nine Thousand Thirty Seven Only)**, which is the aggregate consideration payable by the Selected Bidder towards purchase of the **Sale Shares at par** along with assets and liabilities of the Company as on the Closing Date subject to adjustment as per the audited accounts of the Company as on the Closing Date;
  - (ii) **"Agreement"** or **"the Agreement"** or **"this Agreement"** shall mean this Share Purchase Agreement and shall include the recitals and/or annexures attached hereto, and the contracts, certificates, disclosures and other documents to be executed and delivered pursuant hereto, if any, and any amendments made to this Agreement by Parties in writing;
  - (iii) **"Bid Process"** shall mean the competitive bidding process initiated by the Company, by issuance of RFP Documents for selecting a Successful Bidder to build, own, operate and transfer the Project in accordance with and on the terms and conditions mentioned in the RFP Project Documents.
  - (iv) **"Board"** shall mean the board of directors of the Company
  - (v) **"Closing Date"** shall mean a mutually agreed date between the Parties falling within the period as mentioned in Clause 2.4 of RFP or on failure of such mutual

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agreement between the Parties shall be the date falling on the last date of such period;

- (vi) **"CTU" or "Central Transmission Utility of India Limited"** shall have same meaning as defined in the Electricity Act, 2003;
- (vii) **"Encumbrance"** shall mean any mortgage, pledge, lien, charge, security assignment, hypothecation, trust, encumbrance or any other agreement having the effect of creating security interest;
- (viii) **"Letter of Intent"** shall have the meaning ascribed thereto under the RFP;
- (ix) **"Nominees"** shall mean the Persons, who are named in Annexure A, holding the Sale Shares as nominees of PFCCL;
- (x) **"Party"** shall mean PFCCL, Company and the Selected Bidder, referred to individually, and **"Parties"** shall mean PFCCL, Company and the Selected Bidder collectively referred to, as relevant;
- (xi) **"Person"** shall include an individual, an association, a corporation, a partnership, a joint venture, a trust, an unincorporated organisation, a joint stock company or other entity or organisation, including a government or political subdivision, or an agency or instrumentality thereof, and/or any other legal entity;
- (xii) **"RFP Project Documents"** shall mean the following documents, referred to collectively:
  - a) Transmission Services Agreement;
  - b) this Agreement; and
  - c) Any other agreement(s) as may be required.
- (xiii) **"Representations and Warranties"** shall mean the representations and warranties mentioned in **Clause 4** hereto;
- (xiv) **"Sale Shares"** shall mean **10,000 (Ten Thousand)** Shares, representing 100 percent of the total issued, subscribed and fully paid-up equity share capital of the Company held by the Shares Seller and Nominees as more particularly described in Annexure A attached hereto;
- (xv) **"Shares"** shall mean the fully paid-up equity shares of Company, of face value Rs. 10 each;
- (xvi) **"Shares Seller"** shall mean PFCCL;
- (xvii) **"Transmission Services Agreement" or "TSA"** means the agreement titled 'Transmission Services Agreement' dated **November 19, 2024** entered into between Central Transmission Utility of India Limited and the TSP pursuant to

  
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which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project to Central Transmission Utility of India Limited on a commercial basis, as may be amended from time to time;

- (xviii) **Transmission Service Provider or "TSP"** shall mean Pune- III Transmission Limited which has executed the Transmission Service Agreement and which shall be acquired by the Selected Bidder.

### 1.3 Interpretation Clause

Unless the context otherwise requires, the provisions of the TSA relating to the interpretation of the TSA shall apply to this Agreement as if they were set out in full in this Agreement and to this end are incorporated herein by reference.

## 2. TRANSFER OF SHARES

- 2.1 Subject to the terms and conditions of this Agreement, the Shares Seller agrees to sell and transfer to the Selected Bidder and the Selected Bidder hereby agrees to purchase from the Shares Seller, the Sale Shares of the Company free from Encumbrances with rights and benefits attached thereto in consideration of the Acquisition Price and the covenants, undertakings and the agreements of the Selected Bidder contained in this Agreement.
- 2.2 The Shares Seller hereby undertakes to cause the Nominees to transfer part of the Sale Shares held by them as Nominees of the Shares Seller to the Selected Bidder and execute any documents required to deliver good title to the Sale Shares to the Selected Bidder.

## 3. CLOSING

- 3.1 Prior to the Closing Date, the Selected Bidder shall provide to the Shares Seller, valid share transfer forms ("Share Transfer Forms") duly stamped with requisite amount of stamp duty payable on the transfer of Sale Shares.
- 3.2 On the Closing Date, the Shares Seller shall hand over to the Selected Bidder or its authorised representative, the original share certificates representing the Sale Shares ("Sale Share Certificates") along with the Share Transfer Forms duly executed by the Shares Seller and the Nominees in favour of the Selected Bidder, simultaneously against the Selected Bidder handing over to the Shares Seller demand drafts drawn in favour of the Shares Seller for the Acquisition Price payable to it.

Provided that prior to the handing over of the Sale Share Certificates to the Selected Bidder as mentioned above, the Selected Bidder shall provide satisfactory evidence to PFCCCL that on or before the Closing Date, the Selected Bidder has furnished the Performance Bank Guarantee to Central Transmission Utility of India Limited and is in a position to comply with all other requirements of Clause 2.4 of the RFP.



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3.3 The Selected Bidder shall immediately upon receiving the Sale Share Certificates and the Share Transfer Forms, duly execute the Share Transfer Forms and duly lodge the Share Transfer Forms and the Sale Share Certificates with the Company. The Selected Bidder may also propose the names of its nominees to be appointed on the Board of the Company and the address within the jurisdiction of the Registrar of Companies NCT of Delhi and Haryana, which would be the new registered office of the Company. The Company shall, upon receipt of the said documents from the Selected Bidder, do the following:

- (i) Immediately on the Closing Date convene a meeting of the Board, wherein the Board shall pass the following necessary resolutions:
  - (a) approving the transfer of the Shares constituting the Sale Shares from the Shares Seller and the Nominees to the name of the **Adani Energy Solutions Limited and its nominees and transfer of all assets and liabilities of the Company as on Closing Date;**
  - (b) approving the **Adani Energy Solutions Limited and its nominees** as the members of the Company and entering the name of the **Adani Energy Solutions Limited and its nominees** in the register of members.
  - (c) changing the address of the registered office of the Company to the new address, within the jurisdiction of the Registrar of Delhi and Haryana, as may be provided by the Selected Bidder.
  - (d) appointing the nominees of the Selected Bidder on the Board and accepting the resignations of the other existing Directors on the Board and the Chair of the meeting which was taken by one of the existing Directors shall be vacated and appointment of a new Chairman who shall be one of the newly appointed Director, for the rest of the meeting.

Pursuant to the acceptance of resignation of the existing Directors and appointment of new Chairman, the newly constituted Board of Directors shall hold the meeting and pass the following resolution:

- (e) terminating all the authorizations granted regarding the business and/or operations of the Company or the operations of the bank accounts of the Company, with prospective effect; and
  - (f) Acknowledging and accepting the terms and conditions as contained in the executed copies of the RFP Project Documents and to abide by the provisions contained therein.
- (ii) Enter the name of the **Adani Energy Solutions Limited and its nominees** as the legal and beneficial owner of the Sale Shares, free of all Encumbrances, in the register of members of the Company;





- (iii) Make the necessary endorsements on the Sale Share Certificates, indicating the name of the **Adani Energy Solutions Limited and its nominees** as the legal and beneficial owner of the Sale Shares evidenced there under;
  - (iv) Return the original Sale Share Certificates, duly endorsed in the name of the **Adani Energy Solutions Limited and its nominees**, to the **Adani Energy Solutions Limited and its nominees**, as the case may be or its authorised representative;
  - (v) Handover all the statutory registers and records, if any of the Company to the Selected Bidder.
  - (vi) Handover certified true copies of the Board resolution passed by the Company as per (i)(a) to (i)(e) of Clause 3.3 (i) to Central Transmission Utility of India Limited.
- 3.4 The Parties to this Agreement agree to take all measures that may be required to ensure that all the events contemplated in the **Clauses 3.1 to 3.3** above on the Closing Date are completed on the same day.

Notwithstanding the provisions of **Clause 3.3** hereto, all proceedings to be taken and all documents to be executed and delivered by the Parties at the Closing Date shall be deemed to have been taken and executed simultaneously and no proceedings shall be deemed to have been taken nor documents executed or delivered until all have been taken, executed and delivered.

- 3.5 The Selected Bidder hereby acknowledges and agrees that after the date of acquisition of one hundred percent (100%) of the equity shareholding of the Company, by the Selected Bidder as per Clause 3.3, (a) the authority, rights and obligations of the PFCCL/Company in respect of the Bid Process shall forthwith cease and any actions to be taken thereafter regarding the Bid Process will be undertaken by Central Transmission Utility of India Limited themselves or through their any other authorized representative(s), (b) all rights and obligations of the PFCCL/Company shall be of the Selected Bidder and (c) any decisions taken by the PFCCL/Company prior to the date of its acquisition by the Selected Bidder shall continue to be binding on the Selected Bidder. The Parties hereby agree that this provision shall survive the termination of this Agreement.
- 3.6 This agreement shall be effective from the date of its signing by the Parties and shall remain in force until all the obligations of the respective Parties under Clause 3.3 hereto are fulfilled.

#### 4. REPRESENTATIONS AND WARRANTIES

- 4.1 The Selected Bidder hereby represents and warrants to the Shares Seller that:

- 4.1.1 The Selected Bidder has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein, and this Agreement has been duly and validly executed and delivered by the Selected Bidder and constitutes

  
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its legal, valid and binding obligations, enforceable against it in accordance with its terms;

4.1.2 The execution, delivery and performance of this Agreement by the Selected Bidder (i) will not violate or contravene any provision of the Memorandum of Association or Articles of the Selected Bidder, (ii) will not violate or contravene any law, statute, rule, regulation, licensing requirement, order, writ, injunction or decree of any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority by which the Selected Bidder are bound or by which any of its and/or their properties or assets are bound, and (iii) except to the extent that the same have been duly and properly completed or obtained, will not require any filing with, or permit, consent or approval of or license from, or the giving of any notice to, any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority, joint venture party, or any other entity or person whatsoever; and

4.1.3 The Selected Bidder is not restricted in any manner whatsoever, including without limitation, on account of any judicial or governmental order, action or proceeding, or any contractual obligation assumed by the Selected Bidder, from purchasing the Sale Shares from the Shares Seller in the manner provided for in this Agreement.

4.2 The Shares Seller hereby represents and warrants to the Selected Bidder that;

4.2.1 The Shares Seller and the Nominees are the legal and beneficial owners of the Sale Shares, free and clear of any Encumbrance and the delivery to the Selected Bidder of the Sale Shares pursuant to the provisions of this Agreement will transfer to the Selected Bidder a good title to the Sale Shares.

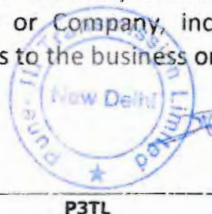
4.2.2 The Shares Seller has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein. The execution, delivery and performance of this Agreement will not violate the Memorandum and Articles of Association of the Shares Seller or contravene any contract by which it is bound.

4.2.3 The Shares Seller has obtained requisite authorizations to sell and transfer the Sale Shares to the Selected Bidder. The Shares Seller also represent that it is not prevented from transferring and selling the Sale Shares. Also, to the best of its knowledge, the Sale Shares are not the subject matter of any claim or pending proceeding or threatened by any legal proceeding made by any third party.

4.3 Except as specified in Clause 4.2, above the Shares Seller shall not be deemed to have, made any representation or warranty whatsoever, whether express or implied, in relation to the Sale Shares or Company, including but not limited to any implied warranty or representation as to the business or affairs of the Company.



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- 4.4 The Representations and Warranties are given as at the date of this Agreement except that where a Representation and Warranty is expressed to be made as at another date, the Representation and Warranty is given with respect to that date only.
- 4.5 Each Representation and Warranty is to be construed independently of the others and is not limited by reference to any other Warranty. The Representations, Warranties and undertakings contained in this **Clause 4** hereto or in any document delivered pursuant to or in connection with this Agreement are continuing in nature and shall survive the Closing Date for one (1) year.
- 4.6 The Parties represent to each other that all Representations and Warranties provided herein by the respective Party shall be true as of Closing Date.

## 5. OBLIGATIONS OF THE SELECTED BIDDER

The Selected Bidder agrees that the Shares Seller shall not be liable in any manner, nor shall it assume any responsibility or liability whatsoever, in respect of the business of the Company and its operations or activities, arising after Closing Date, to any Person or any authority, central, state, local or municipal or otherwise and the same shall be the sole responsibility of the Selected Bidder.

## 6. MISCELLANEOUS

### 6.1 NOTICES

- a) All notices to be given under this Agreement shall be in writing and in the English language.
- b) All notices must be delivered personally or by registered or speed post or by recognised courier to the addresses below:

|                                                                        |                                                                                                                                                                    |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Selected Bidder<br/>(Lead Member in<br/>case of<br/>Consortium)</b> | <b>Adani Energy Solutions Limited</b><br><b>Adani Corporate House, Shantigram Near Vaishno Devi Circle, S.<br/>G. Highway, Khodiyar, Ahmedabad, Gujarat-382421</b> |
| <b>Name of the<br/>Holding<br/>Company of the<br/>SPV</b>              | <b>Company Secretary,<br/>PFC Consulting Limited</b><br>First Floor, "Urjanidhi",<br>1 Barakhamba Lane, Connaught Place,<br>New Delhi- 110001                      |
| <b>Company (Before<br/>Closing Date)</b>                               | <b>Project In-charge</b><br><b>Pune- III TRANSMISSION LIMITED</b><br>First Floor, "Urjanidhi",<br>1 Barakhamba Lane, Connaught Place,                              |

|                                     |                                                                                 |
|-------------------------------------|---------------------------------------------------------------------------------|
|                                     | New Delhi- 110001                                                               |
| <b>Company (After Closing Date)</b> | <b>PUNE- III TRANSMISSION LIMITED</b><br>C 105, Anand Niketan, New Delhi 110021 |

- c) Any Party may by notice of at least fifteen (15) days to the other Parties change the address and / or addresses to which such notices and communications to it are to be delivered or mailed.

## 6.2 RESOLUTION OF DISPUTES

- 6.2.1 If any dispute arises between the Parties, in connection with the validity, interpretation, implementation or alleged breach of any provision of this Agreement ("Dispute"), the disputing Parties hereto shall endeavor to settle such Dispute amicably. The attempt to bring about an amicable settlement shall be considered to have failed if not resolved within 60 days from the date of the Dispute.
- 6.2.2 If the Parties are unable to amicably settle the Dispute in accordance with Clause 6.2.1 within the period specified therein, any of the Parties shall be entitled to within 30 days after expiry of the aforesaid period, refer the Dispute to the Company Secretary of PFCCL and Chief Executive/ Managing Director of the Selected Bidder for resolution of the said Dispute. The attempt to bring about such resolution shall be considered to have failed if not resolved within 30 days from the date of receipt of a written notification in this regard.
- 6.2.3 In the event the Dispute is not settled in accordance with Clause 6.2.2 above, any Party to the Dispute shall be entitled to serve a notice invoking this Clause and making a reference to a sole arbitrator. If the Parties to the Dispute cannot agree as to the appointment of the sole arbitrator within 30 days of receipt of the notice of the Party making the reference, then the Shares Seller along with the Company shall appoint one arbitrator and the Selected Bidder shall appoint one arbitrator and the two arbitrators, so appointed shall appoint a third arbitrator. However, after the Closing Date, in such an event the Shares Seller shall appoint one arbitrator and the Selected Bidder along with the Company shall appoint one arbitrator and the two arbitrators, so appointed shall appoint the third arbitrator.
- 6.2.4 The place of the arbitration shall be New Delhi. The Arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996.
- 6.2.5 The proceedings of arbitration shall be in English language.





6.2.6 The arbitrator's award shall be substantiated in writing. The arbitrators shall also decide on the costs of the arbitration proceedings. In case the arbitrators have not decided on the costs of the arbitration proceedings, each Party to the Dispute shall bear its own costs, in relation to the arbitration proceedings.

### 6.3 AUTHORISED PERSON

For the purposes of this Agreement, the Selected Bidder is represented by **Shri Sanjay Arvind Johari, Authorized Representative**, pursuant to an authorization granted to **Shri Sanjay Arvind Johari, Authorized Representative**, through necessary Board resolutions. Further, **Shri Sanjay Arvind Johari, Authorized Representative**, is also authorized by such resolutions to take any decision which may be required to be taken, do all acts and execute all documents which are or may be required by the Selected Bidder for the proper and effective fulfillment of the rights and obligations under this Agreement. Any action taken or document executed by **Shri Sanjay Arvind Johari, Authorized Representative**, shall be deemed to be acts done or documents executed by the Selected Bidder and shall be binding on the Selected Bidder.

### 6.4 RESERVATION OF RIGHTS

No forbearance, indulgence or relaxation or inaction by any Party at any time to require performance of any of the provisions of this Agreement shall in any way affect, diminish or prejudice the right of such Party to require performance of that provision, and any waiver or acquiescence by any Party of any breach of any of the provisions of this Agreement shall not be construed as a waiver or acquiescence of any continuing or succeeding breach of such provisions, a waiver of any right under or arising out of this Agreement or acquiescence to or recognition of rights other than that expressly stipulated in this Agreement.

### 6.5 CUMULATIVE RIGHTS

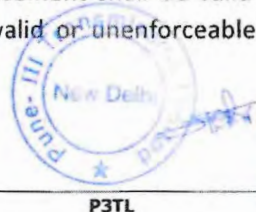
All remedies of either Party under this Agreement whether provided herein or conferred by statute, civil law, common law, custom or trade usage, are cumulative and not alternative and may be enforced successively or concurrently.

### 6.6 PARTIAL INVALIDITY

If any provision of this Agreement or the application thereof to any person or circumstance shall be invalid or unenforceable to any extent, the remainder of this Agreement and the application of such provision to persons or circumstances other than those as to which it is held invalid or unenforceable shall not be affected thereby, and each provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law. Any invalid or unenforceable provision of this Agreement shall be



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replaced with a provision, which is valid and enforceable and most nearly reflects the original intent of the unenforceable provision.

#### 6.7 TERMINATION

If (i) the Closing does not occur on the Closing Date for any reason whatsoever, or (ii) the Letter of Intent is withdrawn or terminated for any reason, or (iii) due to termination of the TSA by Central Transmission Utility of India Limited in accordance with Article 3.3.2 or Article 13 of the TSA thereof, PFCCL shall have a right to terminate this Agreement forthwith by giving a written notice to the other Parties hereto.

#### 6.8 AMENDMENTS

No modification or amendment of this Agreement and no waiver of any of the terms or conditions hereof shall be valid or binding unless made in writing and duly executed by all the Parties.

#### 6.9 ASSIGNMENT

This Agreement and the rights and liabilities hereunder shall bind and inure to the benefit of the respective successors of the Parties hereto, but no Party hereto shall assign or transfer its rights and liabilities hereunder to any other Person without the prior written consent of the other Parties, which will not be unreasonably withheld.

#### 6.10 ENTIRE AGREEMENT

This Agreement constitutes the entire Agreement between the Parties with respect to the subject matter herein and supersedes and cancels any prior oral or written agreement, representation, understanding, arrangement, communication or expression of intent relating to the subject matter of this Agreement.

#### 6.11 COSTS

Each of the Parties hereto shall pay their own costs and expenses relating to the negotiation, preparation and execution of this Agreement and the transactions contemplated by this Agreement.

The Selected Bidder shall be liable to bear and pay the stamp duty and other costs in respect of this Agreement and the Share Transfer Forms.

#### 6.12 RELATIONSHIP

None of the provisions of this Agreement shall be deemed to constitute a partnership between the Parties hereto and no Party shall have any authority to bind the other Party



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otherwise than under this Agreement or shall be deemed to be the agent of the other in any way.

#### 6.13 GOVERNING LAW AND JURISDICTION

This Agreement shall be governed by and construed in accordance with the laws of India and shall be subject to the exclusive jurisdiction of the courts of Delhi.

#### 6.14 COUNTERPARTS

This Agreement may be executed in counterparts by the Parties and each fully executed counterpart shall be deemed to be original.

#### 6.15 CONFIDENTIALITY

The Parties undertake to hold in confidence and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

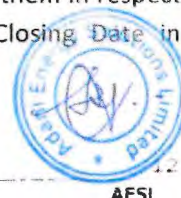
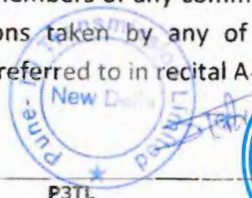
- (a) to their professional advisors;
- (b) to their officers, employees, agents or representatives, who need to have access to such information for the proper performance of their activities;
- (c) disclosures required under Law;

without the prior written consent of the other Parties.

Provided that Central Transmission Utility of India Limited and PFCL may at any time, disclose the terms and conditions of transactions contemplated hereby to any person, to the extent stipulated under the law or the Bidding Guidelines

#### 6.16 INDEMNIFICATION

- The Parties hereby agree that transfer of Sale Shares to the Selected Bidder shall vest all the rights, privileges, licenses, responsibilities, liabilities and other obligations pertaining to the Company in the Selected Bidder.
- The Selected Bidder hereby agrees that the Selected Bidder shall not be entitled to any claims or initiate any legal proceedings, by itself or through the Transmission Service Provider against the Share Sellers, its directors, officers, employees and the subscribers including the members of any committees appointed by them in respect of any actions or decisions taken by any of them up to the Closing Date in furtherance of the Project referred to in recital A of this Agreement.



Share Purchase Agreement

- Further, the Selected Bidder hereby indemnifies and holds harmless at all times the Share Seller against all losses, damages, charges, and expenses which the Share Seller may sustain or incur towards contractual obligations with respect to the contracts awarded by the Share Seller or any other liability arising with regard to any action/ activity undertaken by the Share Seller for and on behalf of the Company in furtherance of the Project referred to above or otherwise concerning the Company. All such actions shall be defended by the Selected Bidder either itself or through the TSP at its own cost.
- The Parties hereby agree that the provisions of this clause shall survive the termination of this Agreement.

**IN WITNESS WHEREOF, THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE DULY EXECUTED AND DELIVERED AS OF THE DAY AND YEAR FIRST ABOVE WRITTEN**

SIGNED AND DELIVERED

BY THE WITHIN NAMED "PFCCL" PFC CONSULTING LIMITED

BY THE HAND OF SHRI SACHIN ARORA, COMPANY SECRETARY

PURSUANT TO THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS ON 25<sup>th</sup> OCTOBER, 2024

IN THE PRESENCE OF:

WITNESS:

NAME, SIGNATURE, DESIGNATION AND ADDRESS:

SIGNED AND DELIVERED

BY THE WITHIN NAMED "PUNE- III TRANSMISSION LIMITED"

BY THE HAND OF SHRI NAVEEN KUMAR, DIRECTOR

PURSUANT TO THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS ON 17<sup>th</sup> OCTOBER, 2024

IN THE PRESENCE OF:

WITNESS:

NAME, SIGNATURE, DESIGNATION AND ADDRESS:

DEEPAK KUMAR (AM), PFCCL

PFCCL P3TL AESL



## Share Purchase Agreement

SIGNED AND DELIVERED  
BY THE WITHIN NAMED "ADANI ENERGY SOLUTIONS LIMITED"



BY THE HAND OF SHRI SANJAY ARVIND JOHARI, AUTHORIZED REPRESENTATIVE

PURSUANT TO THE RESOLUTION PASSED BY THE BOARD OF DIRECTORS ON 22<sup>ND</sup> DAY OF OCTOBER, 2024

IN THE PRESENCE OF:  
WITNESS:

19/11/24  
(SHASHANK SHARMA)  
AESL

NAME, SIGNATURE, DESIGNATION AND ADDRESS:



PFCCCL



P3TL



AESL

**ANNEXURE A****DESCRIPTION OF THE SALE SHARES**

| S. NO. | NAME OF THE SHAREHOLDER                                        | NUMBER OF EQUITY SHARES HELD | PERCENTAGE OF THE TOTAL PAID UP EQUITY CAPITAL |
|--------|----------------------------------------------------------------|------------------------------|------------------------------------------------|
| 1.     | PFC Consulting Limited                                         | 9400                         | 94%                                            |
| 2.     | Shri Manoj Kumar Rana<br>(Nominee of PFC Consulting Limited)   | 100                          | 1%                                             |
| 3.     | Shri Neeraj Singh<br>(Nominee of PFC Consulting Limited)       | 100                          | 1%                                             |
| 4.     | Shri Milind M. Dafade<br>(Nominee of PFC Consulting Limited)   | 100                          | 1%                                             |
| 5.     | Shri Sanjay Kumar Nayak<br>(Nominee of PFC Consulting Limited) | 100                          | 1%                                             |
| 6.     | Shri Sachin Shukla<br>(Nominee of PFC Consulting Limited)      | 100                          | 1%                                             |
| 7.     | Shri Rishab Jain<br>(Nominee of PFC Consulting Limited)        | 100                          | 1%                                             |
|        | <b>Total</b>                                                   | <b>10,000</b>                | <b>100%</b>                                    |



PFCCL



P3TL



AESL

## Annexure A9

**TRANSMISSION SERVICE AGREEMENT****FOR****DEVELOPMENT AND OPERATION OF INTER-STATE  
TRANSMISSION SYSTEM****FOR TRANSMISSION OF ELECTRICITY THROUGH TARIFF  
BASED COMPETITIVE BIDDING FOR****TRANSMISSION SYSTEM FOR EVACUATION OF POWER  
FROM POTENTIAL RENEWABLE ENERGY ZONE IN  
KHAVDA AREA OF GUJARAT UNDER PHASE-IV (7GW):****PART D****BETWEEN****CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED  
(NODAL AGENCY)****AND****PUNE- III TRANSMISSION LIMITED**November <sup>19<sup>th</sup></sup> 2024

## Transmission Service Agreement

## CONTENTS

|    |                                                  |    |
|----|--------------------------------------------------|----|
| 1  | Definitions and Interpretations .....            | 6  |
| 2  | Effectiveness and Term of Agreement .....        | 18 |
| 3  | Conditions Subsequent .....                      | 20 |
| 4  | Development of the Project .....                 | 24 |
| 5  | Construction of the Project.....                 | 28 |
| 6  | Connection and commissioning of the Project..... | 32 |
| 7  | Operation and Maintenance of the Project.....    | 37 |
| 8  | Availability of the project.....                 | 38 |
| 9  | Insurances .....                                 | 39 |
| 10 | Billing And Payment of Transmission Charges..... | 41 |
| 11 | Force Majeure .....                              | 42 |
| 12 | Change in Law .....                              | 46 |
| 13 | Events of Default and Termination.....           | 47 |
| 14 | Liability and Indemnification .....              | 53 |
| 15 | Assignments and Charges .....                    | 57 |
| 16 | Governing Law and Dispute Resolution.....        | 60 |
| 17 | Representation and Warranties .....              | 62 |
| 18 | Independent Engineer .....                       | 64 |
| 19 | Miscellaneous Provisions.....                    | 66 |



Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED



Bond



# Indian-Non Judicial Stamp Haryana Government



Date :13/11/2024

Certificate No. G0M2024K1286



Stamp Duty Paid : ₹ 101

(Rs. Only)

GRN No. 123701060



Penalty : ₹ 0

(Rs. Zero Only)

## Deponent

Name: Central Transmission utility of India Ltd

H.No/Floor : 2

Sector/Ward : 29

Landmark : Na

City/Village : Gurugram

District : Gurugram

State : Haryana

Phone : 98\*\*\*\*\*10



Purpose : ARTICLE 5 GENERAL AGREEMENT to be submitted at Concerned office

**THIS TRANSMISISON SERVICE AGREEMENT** (hereinafter referred to as "TSA" or "Agreement" or "the Agreement" or "this Agreement") is made on the 13<sup>th</sup> [Insert day] of November [Insert month] of Two Thousand and Twenty Four.

### BETWEEN:

The **Central Transmission Utility of India Limited**, having its registered address at "Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram-122001, Haryana and correspondence address at 5th to 10th Floor, Ircon International Tower, Tower no-1, Plot no -16, Sector-32, Gurugram, Haryana-122003, acting as a Nodal Agency (referred to as the "Nodal Agency"), which expression shall unless repugnant to the context or meaning thereof include its successors, and permitted assigns) as Party of the one part;

### AND

**PUNE- III TRANSMISSION LIMITED** incorporated under the Companies Act, 1956/ Companies Act, 2013 (as the case may be), having its registered office at **Urjanidhi, First Floor, Barakhamba Lane- 1, Connaught Place, New Delhi, Central Delhi- 110001, Delhi** (herein after referred to as "Transmission Service Provider" or "TSP" or "ISTS Licensee", which expression shall unless repugnant to the context or meaning thereof include its successors, and permitted assigns) as Party of the other part;

Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

**("Nodal Agency" and "TSP" are individually referred to as "Party" and collectively as the "Parties")**

**AND WHEREAS:**

- A) In accordance with the Bidding Guidelines, the Bid Process Coordinator (hereinafter referred to as BPC) had initiated a competitive e-reverse bidding process through issue of RFP for selecting a Successful Bidder to build, own, operate and transfer the Project comprising of the Elements mentioned in Schedule 1 (hereinafter referred to as the Project)
- B) Pursuant to the said e-reverse bidding process, the BPC has identified the Successful Bidder, who will be responsible to set up the Project on build, own, operate and transfer basis to provide Transmission Service in accordance with the terms of this Agreement and the Transmission License.
- C) The Selected Bidder have submitted the Contract Performance Guarantee and acquired one hundred percent (100%) of the equity shareholding of **PUNE- III TRANSMISSION LIMITED**, along with all its related assets and liabilities in terms of the provisions of the Share Purchase Agreement.
- D) The TSP has agreed to make an application for a Transmission License to the Commission for setting up the Project on build, own, operate and transfer basis.
- E) The TSP has further agreed to make an application to the Commission for the adoption of the Transmission Charges under Section 63 of the Electricity Act, 2003, along with a certification from the Bid Evaluation Committee in accordance with the Bidding Guidelines issued by Ministry of Power, Government of India.
- F) The TSP has agreed to execute the agreement(s) required, if any, under Sharing Regulations within fifteen (15) days from the date of grant of Transmission License from the Commission.
- G) The TSP agrees to the terms and conditions laid down under Sharing Regulations, for making available the ISTS and charge the Transmission Charges in accordance with the terms and conditions of Sharing Regulations.
- H) The billing, collection and disbursement of the Transmission Charges by the CTU to the ISTS Licensee shall be governed as per Sharing Regulations.
- I) The terms and conditions stipulated in the Transmission License issued by the Commission to the TSP shall be applicable to this Agreement and the TSP agrees to comply with these terms and conditions. In case of inconsistency between the Transmission License terms & conditions and the conditions of this Agreement, the conditions stipulated in the Transmission License granted by the Commission shall prevail.

Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED



**Transmission Service Agreement**

NOW, THEREFORE, IN CONSIDERATION OF THE PREMISES AND MUTUAL AGREEMENTS, COVENANTS AND CONDITIONS SET FORTH HEREIN, IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:

Central Transmission Utility of India Limited



PUNE TRANSMISSION LIMITED



## Transmission Service Agreement

## ARTICLE: 1

## 1. DEFINITIONS AND INTERPRETATIONS

## 1.1 Definitions:

- 1.1.1 The words / expressions used in this Agreement, unless as defined below or repugnant to the context, shall have the same meaning as assigned to them by the Electricity Act, 2003 and the rules or regulations framed there under including those issued / framed by the Commission (as defined hereunder), as amended or re-enacted from time to time or the General Clauses Act, failing which it shall bear its ordinary English meaning.

The words/expressions when used in this Agreement shall have the respective meanings as specified below:

**"Acquisition Price"** shall have the same meaning as defined in the Share Purchase Agreement;

**"Act"** or **"Electricity Act"** or **"Electricity Act 2003"** shall mean the Electricity Act, 2003 and any amendments made to the same or any succeeding enactment thereof;

**"Affiliate"** shall mean a company that either directly or indirectly

- i. controls or
- ii. is controlled by or
- iii. is under common control with

a Bidding Company (in the case of a single company) or a Member (in the case of a Consortium) and **"control"** means ownership by one entity of at least twenty six percent (26%) of the voting rights of the other entity;

**"Availability"** in relation to the Project or in relation to any Element of the Project, for a given period shall mean the time in hours during that period the Project is capable to transmit electricity at its Rated Voltage and shall be expressed in percentage of total hours in the given period and shall be calculated as per the procedure contained in **Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024**, attached herewith in Schedule 6;

**"Bid"** shall mean technical bid and financial bid submitted by the Bidder, in response to the RFP, in accordance with the terms and conditions of the RFP;

Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED





### Transmission Service Agreement

**"Bid Deadline"** shall mean the last date and time for submission of the Bid in response to RFP, as specified in the RFP;

**"Bidding Company"** shall refer to such single company that has made a Response to RFP for the Project;

**"Bidding Consortium / Consortium"** shall refer to a group of companies that has collectively made a Response to RFP for the Project;

**"Bid Documents"** or **"Bidding Documents"** shall mean the RFP, along with all attachments thereto or clarifications thereof;

**"Bidding Guidelines"** shall mean the "Tariff Based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under Section – 63 of the Electricity Act as amended from time to time;

**"Bid Process Coordinator"** or **"BPC"** shall mean a person or its authorized representative as notified by the Government of India, responsible for carrying out the process for selection of Bidder who will acquire Transmission Service Provider;

**"Bill"** shall mean any bill raised by the CTU on the DICs to recover the Transmission Charges pursuant to the Sharing Regulations;

**"Business Day"** shall mean a day other than Sunday or a statutory holiday, on which the banks remain open for business in the State in which the Nodal Agency's registered office is located and the concerned TSP are located;

**"CEA"** shall mean the Central Electricity Authority constituted under Section -70 of the Electricity Act;

**"Change in law"** shall have the meaning ascribed thereto in Article 12;

**"Commercial Operation Date"** or **"COD"** shall mean the date as per Article 6.2;

**"Commission"** or **"CERC"** shall mean the Central Electricity Regulatory Commission referred to in sub-section (1) of Section 76 of the Electricity Act, 2003 or its successors and assigns;

**"Competent Court of Law"** shall mean the Supreme Court or any High Court, or any tribunal or any similar judicial or quasi-judicial body in India that has jurisdiction to adjudicate upon issues relating to the Project;

**"Connection Agreement"** shall mean the agreement between the CTU or STU or any other concerned parties and the TSP, setting out the terms relating to the

Central Transmission Utility of India Limited



PUNE - II TRANSMISSION LIMITED



### Transmission Service Agreement

connection of the Project to the Inter-connection Facilities and use of the Inter State Transmission System as per the provisions of the IEGC, as the case may be;

**"Consultation Period"** shall mean the period of sixty (60) days or such longer period as the Parties may agree, commencing from the date of issue of a TSP's Preliminary Notice or a Nodal Agency's Preliminary Termination Notice, as provided in Article 13 of this Agreement, for consultation between the Parties to mitigate the consequence of the relevant event having regard to all the circumstances;

**"Consents, Clearances and Permits"** shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the development, execution and operation of Project including without any limitation for the construction, ownership, operation and maintenance of the Transmission Lines and/or sub-stations;

**"Construction Period"** shall mean the period from (and including) the Effective Date of the Transmission Service Agreement up to (but not including) the COD of the Element of the Project in relation to an Element and up to (but not including) the COD of the Project in relation to the Project;

**"Contractors"** shall mean the engineering, procurement, construction, operation & maintenance contractors, surveyors, advisors, consultants, designers, suppliers to the TSP and each of their respective sub-contractors (and each of their respective successors and permitted assigns) in their respective capacities as such;

**"Contract Performance Guarantee"** shall mean the irrevocable unconditional bank guarantee, submitted and to be submitted by the TSP or by the Selected Bidder on behalf of the TSP to the Nodal Agency from a bank mentioned in Annexure 17 of the RFP, in the form attached here to as Schedule 8, in accordance with Article 3 of this Agreement and which shall include the additional bank guarantee furnished by the TSP under this Agreement;

**"Contract Year"**, for the purpose of payment of Transmission Charges, shall mean the period beginning on the COD, and ending on the immediately succeeding March 31 and thereafter each period of 12 months beginning on April 1 and ending on March 31 provided that the last Contract Year shall end on the last day of the term of the TSA;

**"CTU" or "Central Transmission Utility"** shall have same meaning as defined in the Electricity Act, 2003;

Central Transmission Utility of India Limited



PUNE - III TRANSMISSION LIMITED



## Transmission Service Agreement

**"Day"** shall mean a day starting at 0000 hours and ending at 2400 hours;

**"D/C"** shall mean Double Circuit;

**"Designated ISTS Customers"** or **"DICs"** shall have the meaning as ascribed in the Sharing Regulations;

**"Dispute"** shall mean any dispute or difference of any kind between the Parties, in connection with or arising out of this Agreement including any issue on the interpretation and scope of the terms of this Agreement as provided in Article 16;

**"Effective Date"** for the purposes of this Agreement, shall have the same meaning as per Article 2.1 of this Agreement;

**"Electrical Inspector"** shall mean a person appointed as such by the Government under sub-section (1) of Section 162 of the Electricity Act 2003 and also includes Chief Electrical Inspector;

**"Electricity Rules 2005"** shall mean the rules framed pursuant to the Electricity Act 2003 and as amended from time to time;

**"Element"** shall mean each Transmission Line or each circuit of the Transmission Lines (where there are more than one circuit) or each bay of Sub-station or switching station or HVDC terminal or inverter station of the Project, including ICTs, Reactors, SVC, FSC, etc. forming part of the ISTS, which will be owned, operated and maintained by the concerned ISTS Licensee, and which has a separate Scheduled COD as per Schedule 2 of this Agreement and has a separate percentage for recovery of Transmission Charges on achieving COD as per Schedule 5 of this Agreement;

**"Event of Default"** shall mean the events as defined in Article 13 of this Agreement;

**"Expiry Date"** shall be the date which is thirty five (35) years from the COD of the Project;

**"Financial Closure"** shall mean the first Business Day on which funds are made available to the TSP pursuant to the Financing Agreements;

**"Financially Evaluated Entity"** shall mean the company which has been evaluated for the satisfaction of the financial requirement set forth in the RFP;

**"Financing Agreements"** shall mean the agreements pursuant to which the TSP is to finance the Project including the loan agreements, security documents, notes, indentures, security agreements, letters of credit and other documents, as may



Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED



### Transmission Service Agreement

be amended, modified, or replaced from time to time, but without in anyway increasing the liabilities of the Designated ISTS Customers / Nodal Agency;

**"Financial Year"** shall mean a period of twelve months at midnight Indian Standard Time (IST) between 1st April & 31st March;

**"Force Majeure"** and **"Force Majeure Event"** shall have the meaning assigned thereto in Article 11;

**"GOI"** shall mean Government of India;

**"Grid Code"** / **"IEGC"** shall mean the Grid Code specified by the Central Commission under Clause (h) of sub-section (1) of Section 79 of the Electricity Act;

**"Independent Engineer"** shall mean an agency/ company, appointed by Nodal Agency in accordance with the Guidelines for Encouraging Competition in Development of Transmission Projects.

**"Indian Governmental Instrumentality"** shall mean Government of India, Government of any State in India or any ministry, department, board, authority, agency, corporation, commission under the direct or indirect control of Government of India or any State Government or both, any political sub-division of any of them including any court or Commission or tribunal or judicial or quasi-judicial body in India but excluding the CTU, TSP and the Designated ISTS Customers;

**"Insurances"** shall mean the insurance cover to be obtained and maintained by the TSP in accordance with Article 9 of this Agreement;

**"Interconnection Facilities"** shall mean the facilities as may be set up for transmission of electricity through the use of the Project, on either one or both side of generating station's / CTU's / STU's / ISTS Licensee's / Designated ISTS Customer's substations (as the case may be) which shall include, without limitation, all other transmission lines, gantries, sub-stations and associated equipment's not forming part of the Project;

**"ISTS Licensee"** shall be the TSP under this Agreement, consequent to having been awarded a Transmission License by the CERC and shall be referred to as the TSP or the ISTS Licensee, as the context may require in this Agreement;

**"Law" or "Laws"** in relation to this Agreement, shall mean all laws including electricity laws in force in India and any statute, ordinance, rule, regulation, notification, order or code, or any interpretation of any of them by an Indian Governmental Instrumentality having force of law and shall include all rules, regulations, decisions and orders of the Commission;



Central Transmission Utility of India Limited



10

PUNE- III TRANSMISSION LIMITED





**Transmission Service Agreement**

**“Lead Member of the Bidding Consortium” or “Lead Member”** shall mean a company who commits at least 26% equity stake in the Project, meets the technical requirement as specified in the RFP and so designated by other Member(s) in Bidding Consortium;

**“Lenders”** means the banks, financial institutions, multilateral funding agencies, non banking financial companies registered with the Reserve Bank of India (RBI), insurance companies registered with the Insurance Regulatory & Development Authority (IRDA), pension funds regulated by the Pension Fund Regulatory & Development Authority (PFRDA), mutual funds registered with Securities & Exchange Board of India (SEBI), etc., including their successors and assigns, who have agreed on or before COD of the Project to provide the TSP with the debt financing described in the capital structure schedule, and any successor banks or financial institutions to whom their interests under the Financing Agreements may be transferred or assigned;

Provided that, such assignment or transfer shall not relieve the TSP of its obligations to the Nodal Agency under this Agreement in any manner and shall also does not lead to an increase in the liability of the Nodal Agency;

**“Lenders Representative”** shall mean the person notified by the Lender(s) in writing as being the representative of the Lender(s) or the Security Trustee and such person may from time to time be replaced by the Lender(s) pursuant to the Financing Agreements by written notice to the TSP;

**“Letter of Intent” or “LOI”** shall have the same meaning as in the RFP;

**“Member in a Bidding Consortium / Member”** shall mean each company in the Bidding Consortium;

**“Month”** shall mean a period of thirty (30) days from (and excluding) the date of the event;

**“Monthly Transmission Charges”** for any Element of the Project, after COD of the Element till COD of the Project, and for the Project after COD of the Project, shall mean the amount of Transmission Charges as specified in Schedule 5 of this Agreement multiplied by no. of days in the relevant month and divided by no. of days in the year;

**“National Load Despatch Centre”** shall mean the centre established as per sub-section (1) of Section 26 of the Electricity Act 2003;

**“Nodal Agency”** shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);



Central Transmission Utility of India Limited



PUNE - III TRANSMISSION LIMITED

## Transmission Service Agreement

Provided that while taking major decisions, CTU shall consult CEA on technical matters and any other matter it feels necessary.

**"Notification"** shall mean any notification, issued in the Gazette of India;

**"Operating Period"** for any Element of the Project shall mean the period from (and including) the COD of such Element of the Project, up to (and including) the Expiry Date and for the Project, shall mean the period from (and including) the COD of the Project, up to (and including) the Expiry Date;

**"Parent Company"** shall mean an entity that holds at least twenty six percent (26%) of the paid - up equity capital directly or indirectly in the Bidding Company or in the Member in a Bidding Consortium, as the case may be;

**"Preliminary Termination Notice"** shall mean a Nodal Agency's Preliminary Termination Notice as defined in Article 13 of this Agreement;

**"Project"** shall mean **"Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7GW): Part D"**, as detailed in Schedule 1 of this Agreement;

**"Project Assets"** shall mean all physical and other assets relating to and forming part of the Project including:

- (a) rights over the Site for substations, ROW for transmission lines;
- (b) tangible & intangible assets such as civil works and equipment including foundations, embankments, pavements, electrical systems, communication systems, relief centres, administrative offices, Sub-stations, software, tower and sub-stations designs etc;
- (c) project facilities situated on the Site;
- (d) all rights of the TSP under the project agreements;
- (e) financial assets, such as receivables, security deposits etc;
- (f) insurance proceeds; and
- (g) Applicable Permits and authorisations relating to or in respect of the Transmission System;"

**"Project Execution Plan"** shall mean the plan referred to in Article 3.1.3(c) hereof;

**"Prudent Utility Practices"** shall mean the practices, methods and standards that are generally accepted internationally from time to time by electric transmission



### Transmission Service Agreement

utilities for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of the Project and which practices, methods and standards shall be adjusted as necessary, to take account of:

- (i) operation, repair and maintenance guidelines given by the manufacturers to be incorporated in the Project,
- (ii) the requirements of Law, and
- (iii) the physical conditions at the Site;
- (iv) the safety of operating personnel and human beings;

**“Rated Voltage”** shall mean voltage at which the Transmission System is designed to operate or such lower voltage at which the line is charged, for the time being, in consultation with the Central Transmission Utility;

**“Rebate”** shall have the meaning as ascribed to in Article 10.3 of this Agreement;

**“RFP”** shall mean Request For Proposal dated **October 19, 2023** along with all schedules, annexures and RFP Project Documents attached thereto, issued by the BPC for tariff based competitive bidding process for selection of Bidder as TSP to execute the Project, including any modifications, amendments or alterations thereto;

**“RFP Project Documents”** shall mean the following documents to be entered into in respect of the Project, by the Parties to the respective agreements:

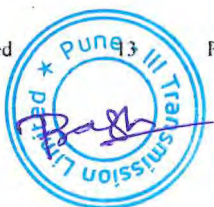
- a. Transmission Service Agreement,
- b. Share Purchase Agreement,
- c. Agreement(s) required under Sharing Regulations and
- d. Any other agreement as may be required;

**“RLDC”** shall mean the relevant Regional Load Dispatch Centre as defined in the Electricity Act, 2003, in the region(s) in which the Project is located;

**“RPC”** shall mean the relevant Regional Power Committee established by the Government of India for the specific Region(s) in accordance with the Electricity Act, 2003 for facilitating integrated operation of the Power System in that Region;

**“Scheduled COD”** in relation to an Element(s) shall mean the date(s) as mentioned in Schedule 2 as against such Element(s) and in relation to the Project,

Central Transmission Utility of India Limited



PUNE-III TRANSMISSION LIMITED



### Transmission Service Agreement

shall mean the date as mentioned in Schedule 2 as against such Project, subject to the provisions of Article 4.4 of this Agreement, or such date as may be mutually agreed among the Parties;

**"Scheduled Outage"** shall mean the final outage plan as approved by the RPC as per the provisions of the Grid Code;

**"Selected Bid"** shall mean the technical Bid and the Final Offer of the Selected Bidder submitted during e-reverse bidding, which shall be downloaded and attached in Schedule 7 on or prior to the Effective Date;

**"Share Purchase Agreement"** shall mean the agreement amongst PFC Consulting Limited (PFCCL), PUNE- III TRANSMISSION LIMITED and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the PUNE- III TRANSMISSION LIMITED for the Acquisition Price, by the Successful Bidder on the terms and conditions as contained therein;

**"Sharing Regulations"** shall mean the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and as amended from time to time;

**"Site"** in relation to a substation, switching station or HVDC terminal or inverter station, shall mean the land and other places upon which such station / terminal is to be established;

**"SLDC"** shall mean the State Load Despatch Centre established as per sub-section (1) of Section 31 of the Electricity Act 2003;

**"STU"** or **"State Transmission Utility"** shall be the Board or the Government company, specified as such by the State Government under sub-section (1) of Section 39 of the Electricity Act 2003;

**"Successful Bidder"** or **"Selected Bidder"** shall mean the Bidder selected pursuant to the RFP and who has to acquire one hundred percent (100%) equity shares of PUNE- III TRANSMISSION LIMITED, along with all its related assets and liabilities, which will be responsible as the TSP to establish the Project on build, own, operate and transfer basis as per the terms of the TSA and other RFP Project Documents;

**"TSP's Preliminary Notice"** shall mean a notice issued by the TSP in pursuant to the provisions of Article 13.3 of this Agreement;

**"Target Availability"** shall have the meaning as ascribed hereto in Article 8.2 of this Agreement;

Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED





## Transmission Service Agreement

**"Technically Evaluated Entity"** shall mean the company which has been evaluated for the satisfaction of the technical requirement set forth in RFP;

**"Termination Notice"** shall mean a Nodal Agency's Termination Notice given by the Nodal Agency to the TSP pursuant to the provisions of Articles 3.3.2, 3.3.4, 4.4.2, 5.8, 13.2 and 13.3 of this Agreement for the termination of this Agreement;

**"Term of Agreement"** for the purposes of this Agreement shall have the meaning ascribed thereto in Article 2.2 of this Agreement;

**"Transmission Charges"** shall mean the Final Offer of the Selected Bidder during the e-reverse bidding and adopted by the Commission, payable to the TSP as per Sharing Regulations;

**"Transmission License"** shall mean the license granted by the Commission in terms of the relevant regulations for grant of such license issued under the Electricity Act;

**"Transmission Service"** shall mean making the Project available as per the terms and conditions of this Agreement and Sharing Regulations;

**"Unscheduled Outage"** shall mean an interruption resulting in reduction of the Availability of the Element(s) / Project (as the case may be) that is not a result of a Scheduled Outage or a Force Majeure Event.

**"Ultimate Parent Company"** shall mean an entity which owns at least twenty six percent (26%) equity in the Bidding Company or Member of a Consortium, (as the case may be) and in the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) and such Bidding Company or Member of a Consortium, (as the case may be) and the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) shall be under the direct control or indirectly under the common control of such entity;

## 1.2 Interpretation:

***Save where the contrary is indicated, any reference in this Agreement to:***

**"Agreement"** shall be construed as including a reference to its Schedules, Appendices and Annexures;

**"Rupee", "Rupees" and "Rs."** shall denote lawful currency of India;

**"crore"** shall mean a reference to ten million (10,000,000) and a **"lakh"** shall mean a reference to one tenth of a million (1,00,000);

**"encumbrance"** shall be construed as a reference to a mortgage, charge, pledge, lien or other encumbrance securing any obligation of any person or any other type



Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED



### Transmission Service Agreement

of preferential arrangement (including, without limitation, title transfer and retention arrangements) having a similar effect;

**"holding company"** of a company or corporation shall be construed as a reference to any company or corporation of which the other company or corporation is a subsidiary;

**"indebtedness"** shall be construed so as to include any obligation (whether incurred as principal or surety) for the payment or repayment of money, whether present or future, actual or contingent;

**"person"** shall have the meaning as defined in Section 2 (49) of the Act;

**"subsidiary"** of a company or corporation (the holding company) shall be construed as a reference to any company or corporation:

- (i) which is controlled, directly or indirectly, by the holding company, or
- (ii) more than half of the issued share capital of which is beneficially owned, directly or indirectly, by the holding company, or
- (iii) which is a subsidiary of another subsidiary of the holding company,

for these purposes, a company or corporation shall be treated as being controlled by another if that other company or corporation is able to direct its affairs and/or to control the composition of its board of directors or equivalent body;

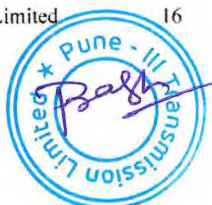
**"winding-up", "dissolution", "insolvency", or "reorganization"** in the context of a company or corporation shall have the same meaning as defined in the Companies Act, 1956/ Companies Act, 2013 (as the case may be).

- 1.2.1 Words importing the singular shall include the plural and vice versa.
- 1.2.2 This Agreement itself or any other agreement or document shall be construed as a reference to this or to such other agreement or document as it may have been, or may from time to time be, amended, varied, novated, replaced or supplemented.
- 1.2.3 A Law shall be construed as a reference to such Law including its amendments or re-enactments from time to time.
- 1.2.4 A time of day shall, save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.
- 1.2.5 Different parts of this Agreement are to be taken as mutually explanatory and supplementary to each other and if there is any inconsistency between or among the parts of this Agreement, they shall be interpreted in a harmonious manner so as to give effect to each part.



Central Transmission Utility of India Limited

16



PUNE-III TRANSMISSION LIMITED



**Transmission Service Agreement**

- 1.2.6 The tables of contents and any headings or sub-headings in this Agreement have been inserted for ease of reference only and shall not affect the interpretation of this Agreement.
- 1.2.7 All interest payable under this Agreement shall accrue from day to day and be calculated on the basis of a year of three hundred and sixty five (365) days.
- 1.2.8 The words "hereof" or "herein", if and when used in this Agreement shall mean a reference to this Agreement.
- 1.2.9 The contents of Schedule 7 shall be referred to for ascertaining accuracy and correctness of the representations made by the Selected Bidder in Article 17.2.1 hereof.

  
Central Transmission Utility of India Limited



  
PUNE-III TRANSMISSION LIMITED

## Transmission Service Agreement

**ARTICLE: 2****2. EFFECTIVENESS AND TERM OF AGREEMENT****2.1 Effective Date:**

This Agreement shall be effective from later of the dates of the following events:

- a. The Selected Bidder, on behalf of the TSP, has provided the Contract Performance Guarantee, as per terms of Article 3.1 of this Agreement; and
- b. The Selected Bidder has acquired for the Acquisition Price, one hundred percent (100%) of the equity shareholding of **PFC Consulting Limited in PUNE- III TRANSMISSION LIMITED** along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement. and
- c. The Agreement is executed and delivered by the Parties;

**2.2 Term and Termination:**

- 2.2.1 Subject to Article 2.2.3 and Article 2.4, this Agreement shall continue to be effective in relation to the Project until the Expiry Date, when it shall automatically terminate.
- 2.2.2 Post the Expiry Date of this Agreement, the TSP shall ensure transfer of Project Assets to CTU or its successors or an agency as decided by the Central Government at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days of expiry of this Agreement failing which CTU shall be entitled to take over the Project Assets Suo moto.
- 2.2.3 This Agreement shall terminate before the Expiry Date in accordance with Article 13 or Article 3.3.2 or Article 3.3.4.

**2.3 Conditions prior to the expiry of the Transmission License**

In order to continue the Project beyond the expiry of the Transmission License, the TSP shall be obligated to make an application to the Commission at least two (2) years before the date of expiry of the Transmission License, seeking the Commission's approval for the extension of the term of the Transmission License up to the Expiry Date.

- 2.3.1 The TSP shall timely comply with all the requirements that may be laid down by the Commission for extension of the term of the Transmission License beyond the initial term of twenty-five (25) years & upto the Expiry Date and the TSP shall keep the Nodal Agency fully informed about the progress on its application for extension of the term of the Transmission License.

Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED





## Transmission Service Agreement

### 2.4 Survival:

The expiry or termination of this Agreement shall not affect any accrued rights, obligations/ roles and liabilities of the Parties under this Agreement, including the right to receive liquidated damages as per the terms of this Agreement, nor shall it effect the survival of any continuing obligations/ roles for which this Agreement provides, either expressly or by necessary implication, which are to survive after the Expiry Date or termination including those under Articles 3.3.3, 3.3.5, Article 9.3 (Application of Insurance Proceeds), Article 11 (Force Majeure), Article 13 (Events of Default and Termination), Article 14 (Liability & Indemnification), Article 16 (Governing Law & Dispute Resolution), Article 19 (Miscellaneous).

### 2.5 Applicability of the provisions of this Agreement

2.5.1 For the purpose of Availability, Target Availability and the computation of Availability, Incentive, Penalty, the provisions provided in this Agreement shall apply and any future modifications in the relevant Rules and Regulations shall not be applicable for this Project.

2.5.2 For the purposes of this Agreement for ISTS systems developed under the tariff based competitive bidding framework, the provisions relating to the definitions (Availability and COD), Article 3 (Contract Performance Guarantee and Conditions Subsequent), Article 5 (Construction of the Project), Article 6 (Connection and Commissioning of the Project), Article 8 (Target Availability and calculation of Availability), Article 11 (Force Majeure), Article 12 (Change in Law), Article 13 (Event of Default), Article 14 (Indemnification), Article 15 (Assignment and Charges), Articles 16.1, 16.2 and 16.4 (Governing Laws and Dispute Resolution) and Article 17 (representation and warranties of the ISTS Licensee) of this agreement shall supersede the corresponding provisions under Sharing Regulations.



## Transmission Service Agreement

**ARTICLE: 3****3. CONDITIONS SUBSEQUENT****3.1 Satisfaction of conditions subsequent by the TSP**

3.1.1 Within ten (10) days from the date of issue of Letter of Intent, the Selected Bidder, shall:

- a. Provide the Contract Performance Guarantee, and
- b. Acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of **PUNE- III TRANSMISSION LIMITED** from **PFC Consulting Limited**, who shall sell to the Selected Bidder, the equity shareholding of **PUNE- III TRANSMISSION LIMITED**, along with all its related assets and liabilities.
- c. Execute this Agreement;

The TSP shall, within five (5) working days from the date of acquisition of SPV by the Selected Bidder, undertake to apply to the Commission for the grant of Transmission License and for the adoption of tariff as required under section-63 of the Electricity Act.

The Selected Bidder, on behalf of the TSP, will provide to the **Central Transmission Utility of India Limited** (being the Nodal Agency) the Contract Performance Guarantee for an amount of **Rs.70 Crore (Rupees Seventy Crore Only)**.

3.1.2 The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project. In case the validity of the Contract Performance Guarantee is expiring before the validity specified in this Article, the TSP shall, at least thirty (30) days before the expiry of the Contract Performance Guarantee, replace the Contract Performance Guarantee with another Contract Performance Guarantee or extend the validity of the existing Contract Performance Guarantee until the validity period specified in this Article.

3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities within six (6) months from the Effective Date (except for c) below), unless such completion is affected due to any Force Majeure Event, or if any of the activities is specifically waived in writing by the Nodal Agency:

- a. To obtain the Transmission License for the Project from the Commission;
- b. To obtain the order for adoption of Transmission Charges by the

Central Transmission Utility of India Limited

20

PUNE- III TRANSMISSION LIMITED



### Transmission Service Agreement

Commission, as required under Section 63 of the Electricity Act 2003;

- c. To submit to the Nodal Agency, CEA & Independent Engineer, the Project Execution Plan, immediately after award of contract(s) and maximum within one hundred and twenty (120) days from the Effective Date. Also, an approved copy each of Manufacturing Quality Plan (MQP) and Field Quality Plan (FQP) would be submitted to Independent Engineer & Nodal Agency in the same time period. The TSP's Project Execution Plan should be in conformity with the Scheduled COD as specified in Schedule 2 of this Agreement, and shall bring out clearly the organization structure, time plan and methodology for executing the Project, award of major contracts, designing, engineering, procurement, shipping, construction, testing and commissioning to commercial operation;
- d. To submit to the Nodal Agency, CEA & Independent Engineer a detailed bar (GANTT) chart of the Project outlining each activity (taking longer than one Month), linkages as well as durations;
- e. To submit to the Nodal Agency, CEA & Independent Engineer detailed specifications of conductor meeting the functional specifications specified in RFP;
- f. To achieve Financial Closure;
- g. To provide an irrevocable letter to the Lenders duly accepting and acknowledging the rights provided to the Lenders under the provisions of Article 15.3 of this Agreement and all other RFP Project Documents;
- h. To award the Engineering, Procurement and Construction contract ("EPC contract") for the design and construction of the Project and shall have given to such Contractor an irrevocable notice to proceed; and
- i. To sign the Agreement(s) required, if any, under Sharing Regulations.

### 3.2 Recognition of Lenders' Rights by the Nodal Agency

- 3.2.1 The Nodal Agency hereby accepts and acknowledges the rights provided to the Lenders as per Article 15.3 of this Agreement and all other RFP Project Documents.

### 3.3 Consequences of non-fulfilment of conditions subsequent

- 3.3.1 If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months after the time specified therein, then on and from the expiry of such period and until the TSP has satisfied all the conditions specified in Article 3.1.3, the TSP shall, on a monthly basis, be liable to furnish to **Central Transmission Utility of India Limited (being the Nodal Agency)** additional Contract Performance Guarantee of **Rs.7.00 Crore (Rupees Seven Crore Only)** within two (2) Business Days of expiry of every such Month. Such



Central Transmission Utility of India Limited

21

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

additional Contract Performance Guarantee shall be provided to **Central Transmission Utility of India Limited (being the Nodal Agency)** in the manner provided in Article 3.1.1 and shall become part of the Contract Performance Guarantee and all the provisions of this Agreement shall be construed accordingly. **Central Transmission Utility of India Limited (being the Nodal Agency)** shall be entitled to hold and / or invoke the Contract Performance Guarantee, including such additional Contract Performance Guarantee, in accordance with the provisions of this Agreement.

3.3.2 Subject to Article 3.3.4, if:

- (i) the fulfilment of any of the conditions specified in Article 3.1.3 is delayed beyond nine (9) Months from the Effective Date and the TSP fails to furnish additional Contract Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof; or
- (ii) the TSP furnishes additional Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof but fails to fulfil the conditions specified in Article 3.1.3 within a period of twelve (12) months from the Effective Date,

the Nodal Agency shall have the right to terminate this Agreement, by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

- 3.3.3 If the Nodal Agency elects to terminate this Agreement as per the provisions of Article 3.3.2, the TSP shall be liable to pay to the Nodal Agency an amount of **Rs 70 Crore (Rupees Seventy Crore Only)** as liquidated damages. The Nodal Agency shall be entitled to recover this amount of damages by invoking the Contract Performance Guarantee to the extent of liquidated damages, which shall be required by the Nodal Agency, and the balance shall be returned to TSP, if any.

It is clarified for removal of doubt that this Article shall survive the termination of this Agreement.

- 3.3.4 In case of inability of the TSP to fulfil the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1.

Provided, that due to the provisions of this Article 3.3.4, any increase in the time period for completion of conditions subsequent mentioned under Article 3.1.3, shall lead to an equal increase in the time period for the Scheduled COD. If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the





#### Transmission Service Agreement

provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.

- 3.3.5 Upon termination of this Agreement as per Articles 3.3.2 and 3.3.4, the Nodal Agency may take steps to bid out the Project again.
- 3.3.6 The Nodal agency, on the failure of the TSP to fulfil its obligations, if it considers that there are sufficient grounds for so doing, apart from invoking the Contract Performance Guarantee under para 3.3.3 may also initiate proceedings for blacklisting the TSP as per provisions of Article 13.2 of TSA.

#### 3.4 Progress Reports

The TSP shall notify the Nodal Agency and CEA in writing at least once a Month on the progress made in satisfying the conditions subsequent in Articles 3.1.3.

Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

**ARTICLE: 4****4. DEVELOPMENT OF THE PROJECT****4.1 TSP's obligations in development of the Project:**

Subject to the terms and conditions of this Agreement, the TSP at its own cost and expense shall observe, comply with, perform, undertake and be responsible:

- a. for procuring and maintaining in full force and effect all Consents, Clearances and Permits, required in accordance with Law for development of the Project;
- b. for financing, constructing, owning and commissioning each of the Element of the Project for the scope of work set out in Schedule 1 of this Agreement in accordance with:

- i. the Electricity Act and the Rules made thereof;
- ii. the Grid Code;
- iii. the CEA Regulations applicable, and as amended from time to time, for Transmission Lines and sub-stations:

- the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007;
- Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010;
- Central Electricity Authority (Grid Standard) Regulations, 2010;
- Central Electricity Authority (Safety requirements for construction, operation and maintenance of Electrical Plants and Electrical Lines) Regulation, 2011;
- Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulation, 2010;
- Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020.

- iv. Safety/ security Guidelines laid down by the Government;
- v. Prudent Utility Practices, relevant Indian Standards and the Law;

Central Transmission Utility of India Limited

24

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

not later than the Scheduled COD as per Schedule 2 of this Agreement;

- c. for entering into a Connection Agreement with the concerned parties in accordance with the Grid Code.
- d. for owning the Project throughout the term of this Agreement free and clear of any encumbrances except those expressly permitted under Article 15 of this Agreement;
- e. to co-ordinate and liaise with concerned agencies and provide on a timely basis relevant information with regard to the specifications of the Project that may be required for interconnecting the Project with the Interconnection Facilities;
- f. for providing all assistance to the Arbitrators as they may require for the performance of their duties and responsibilities;
- g. to provide to the Nodal Agency and CEA, on a monthly basis, progress reports with regard to the Project and its execution (in accordance with prescribed form) to enable the CEA to monitor and co-ordinate the development of the Project matching with the Interconnection Facilities;
- h. to comply with Ministry of Power order no. 25-11/6/2018 – PG dated 02.07.2020 as well as other Guidelines issued by Govt. of India pertaining to this;
- i. to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard (Procuring Entity as defined in above orders shall deemed to have included Selected Bidder and/ or TSP).

Also, to comply with Department of Expenditure, Ministry of Finance vide Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD, dated 24.07.2020, as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India;



### Transmission Service Agreement

- j. to submit to Nodal Agency information in the prescribed format [To be devised by Nodal Agency] for ensuring compliance to Article 4.1 i) above.
- k. to comply with all its obligations undertaken in this Agreement.

#### 4.2 Roles of the Nodal Agency in implementation of the Project:

4.2.1 Subject to the terms and conditions of this Agreement, the Nodal Agency shall be the holder and administrator of this Agreement and shall inter alia:

- a. appoint an Independent Engineer within 90 days of the Effective Date
- b. provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time, for obtaining the Consents, Clearances and Permits required for the Project;
- c. coordinate among TSP and upstream/downstream entities in respect of Interconnection Facilities; and
- d. monitor the implementation of the Agreement and take appropriate action for breach thereof including revocation of guarantees, cancellation of Agreement, blacklisting etc
- e. provide all assistance to the Arbitrators as required for the performance of their duties and responsibilities; and
- f. perform any other responsibility (ies) as specified in this Agreement.

#### 4.3 Time for Commencement and Completion:

- a. The TSP shall take all necessary steps to commence work on the Project from the Effective Date of the Agreement and shall achieve Scheduled COD of the Project in accordance with the time schedule specified in Schedule 2 of this Agreement;
- b. The COD of each Element of the Project shall occur no later than the Scheduled COD or within such extended time to which the TSP shall be entitled under Article 4.4 hereto.

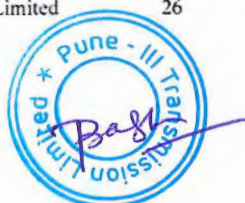
#### 4.4 Extension of time:

4.4.1 In the event that the TSP is unable to perform its obligations for the reasons solely attributable to the Nodal Agency, the Scheduled COD shall be extended, by a 'day to day' basis, subject to the provisions of Article 13.

Central Transmission Utility of India Limited

26

PUNE- III TRANSMISSION LIMITED





### Transmission Service Agreement

- 4.4.2 In the event that an Element or the Project cannot be commissioned by its Scheduled COD on account of any Force Majeure Event as per Article 11, the Scheduled COD shall be extended, by a 'day to day' basis for a period of such Force Majeure Event. Alternatively, if deemed necessary, the Nodal Agency may terminate the Agreement as per the provisions of Article 13.4 by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.
- 4.4.3 If the Parties have not agreed, within thirty (30) days after the affected Party's performance has ceased to be affected by the relevant circumstance, on how long the Scheduled COD should be deferred by, any Party may raise the Dispute to be resolved in accordance with Article 16.

### 4.5 Metering Arrangements:

- 4.5.1 The TSP shall comply with all the provisions of the IEGC and the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 as amended from time to time, with regard to the metering arrangements for the Project. The TSP shall fully cooperate with the CTU / STU / RLDC and extend all necessary assistance in taking meter readings.

### 4.6 Interconnection Facilities:

- 4.6.1 Subject to the terms and conditions of this Agreement, the TSP shall be responsible for connecting the Project with the interconnection point(s) specified in Schedule 1 of this Agreement. The Interconnection Facilities shall be developed as per the scope of work and responsibilities assigned in Schedule 1 of this Agreement. The Nodal Agency shall be responsible for coordinating to make available the Interconnection Facilities.
- 4.6.2 In order to remove any doubts, it is made clear that the obligation of the TSP within the scope of the project is to construct the Project as per Schedule-1 of this Agreement and in particular to connect it to the Interconnection Facilities as specified in this Agreement.



**ARTICLE: 5****5. CONSTRUCTION OF THE PROJECT****5.1 TSP's Construction Responsibilities:**

- 5.1.1 The TSP, at its own cost and expense, shall be responsible for designing, constructing, erecting, testing and commissioning each Element of the Project by the Scheduled COD in accordance with the Regulations and other applicable Laws specified in Article 4.1 of this Agreement.
- 5.1.2 The TSP acknowledges and agrees that it shall not be relieved from any of its obligations under this Agreement or be entitled to any extension of time or any compensation whatsoever by reason of the unsuitability of the Site or Transmission Line route(s).
- 5.1.3 The TSP shall be responsible for obtaining all Consents, Clearances and Permits related but not limited to road / rail / river / canal / power line / crossings, Power and Telecom Coordination Committee (PTCC), defence, civil aviation, right of way / way-leaves and environmental & forest clearances from relevant authorities required for developing, financing, constructing, maintaining/ renewing all such Consents, Clearances and Permits in order to carry out its obligations under this Agreement in general and shall furnish to the Nodal Agency such copy/ies of each Consents, Clearances and Permits, on demand. Nodal Agency shall provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time, for obtaining the Consents, Clearances and Permits required for the Project.
- 5.1.4 The TSP shall be responsible for:
- a) acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations. Also, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.
  - b) final selection of Site including its geo-technical investigation
  - c) Survey and geo-technical investigation of line route in order to determine the final route of the Transmission Lines;



### Transmission Service Agreement

- d) Seeking access to the Site and other places where the Project is being executed, at its own risk and costs, including payment of any crop, tree compensation or any other compensation as may be required.

5.1.5 In case the Project involves any resettlement and rehabilitation, the resettlement and rehabilitation package will be implemented by the State Government authorities, for which the costs is to be borne by the TSP and no changes would be allowed in the Transmission Charges on account of any variation in the resettlement and rehabilitation cost. The TSP shall provide assistance on best endeavour basis, in implementation of the resettlement and rehabilitation package, if execution of such package is in the interest of expeditious implementation of the Project and is beneficial to the Project affected persons.

### 5.2 Appointing Contractors:

- 5.2.1 The TSP shall conform to the requirements as provided in this Agreement while appointing Contractor(s) for procurement of goods & services.
- 5.2.2 The appointment of such Contractor(s) shall neither relieve the TSP of any of its obligations under this Agreement nor make the Nodal Agency liable for the performance of such Contractor(s).

### 5.3 Monthly Progress Reporting:

The TSP shall provide to the CEA, Nodal Agency & Independent Engineer, on a monthly basis, progress reports along with likely completion date of each Element with regard to the Project and its execution (in accordance with prescribed form). The Nodal Agency/ CEA shall monitor the development of the Project for its timely completion for improving and augmenting the electricity system as a part of its statutory responsibility.

### 5.4 Quality of Workmanship:

The TSP shall ensure that the Project is designed, built and completed in a good workmanship using sound engineering and construction practices, and using only materials and equipment that are new and manufactured as per the MQP and following approved FQP for erection, testing & commissioning and complying with Indian /International Standards such that, the useful life of the Project will be at least thirty five (35) years from the COD of the Project.

The TSP shall ensure that all major substation equipment / component (e.g. transformers, reactors, Circuit Breakers, Instrument Transformers (IT), Surge Arresters (SA), Protection relays, clamps & connectors etc.), equipment in terminal stations of HVDC installations including Thyristor/ IGBT valves, Converter Transformers, smoothing reactors, Transformer bushings and wall bushings, GIS bus



### Transmission Service Agreement

ducts, towers and gantry structures and transmission towers or poles and line materials (conductors, earthwire, OPGW, insulator, accessories for conductors, OPGW & earthwires, hardware fittings for insulators, aviation lights etc), facilities and system shall be designed, constructed and tested (Type test, Routine tests, Factory Acceptance Test (FAT)) in accordance with relevant CEA Regulations and Indian Standards. In case Indian Standards for any particular equipment/ system/ process is not available, IEC/ IEEE or equivalent International Standards and Codes shall be followed.

#### 5.5 Progress Monitoring & Quality Assurance:

- 5.5.1 The Project Execution Plan submitted by the TSP in accordance with Article 3.1.3 c) shall comprise of detailed schedule of all the equipment/items /materials required for the Project, right from procurement of raw material till the dispatch from works and receipt at the site. Further, it should also include various stages of the construction schedule up to the commissioning of the Project.
- 5.5.2 Nodal Agency, CEA & Independent Engineer shall have access at all reasonable times to the Site and to the Manufacturer's works and to all such places where the Project is being executed.
- 5.5.3 Independent Engineer shall ensure conformity of the conductor specifications with the functional specifications specified in RFP.
- 5.5.4 The Independent Engineer shall monitor the following during construction of the Project:
  - a) Quality of equipment, material, foundation, structures and workmanship etc. as laid down in Article 5.4 and 6.1.4 of the TSA. Specifically, quality of Sub-station equipment, transmission line material and workmanship etc. would be checked in accordance with the Article 5.4.
  - b) Progress in the activities specified in Condition Subsequent
  - c) Verification of readiness of the elements including the statutory clearances & completion of civil works, fixing of all components and finalisation of punch points (if any) prior to charging of the elements
  - d) Progress of construction of substation and Transmission Lines
- 5.5.5 The progress shall be reviewed by the Independent Engineer against the Project Execution Plan. The Independent Engineer shall prepare its report on monthly basis and submit the same to Nodal Agency highlighting the progress achieved till the end of respective month vis-à-vis milestone activities, areas





### Transmission Service Agreement

of concern, if any, which may result in delay in the timely completion of the Project. Based on the progress, Nodal Agency and/ or CEA shall issue written instructions to the TSP to take corrective measures, as may be prudent for the timely completion of the Project. In case of any deficiency, the Nodal Agency would be at liberty to take action in accordance with the procedure of this Agreement.

- 5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.

### 5.6 Site regulations and Construction Documents

The TSP shall abide by the Safety Rules and Procedures as mentioned in Schedule 3 of this Agreement

The TSP shall retain at the Site and make available for inspection at all reasonable times, copies of the Consents, Clearances and Permits, construction drawings and other documents related to construction.

### 5.7 Supervision of work:

The TSP shall provide all necessary superintendence for execution of the Project and its supervisory personnel shall be available to provide full-time superintendence for execution of the Project. The TSP shall provide skilled personnel who are experienced in their respective fields.

### 5.8 Remedial Measures:

The TSP shall take all necessary actions for remedying the shortfall in achievement of timely progress in execution of the Project, if any, as intimated by the Independent Engineer and/ or CEA and/ or the Nodal Agency. However, such intimation by the Independent Engineer and/ or CEA and/ or the Nodal Agency and the subsequent effect of such remedial measures carried out by the TSP shall not relieve the TSP of its obligations in the Agreement. Independent Engineer and/ or CEA and/ or the Nodal Agency may carry out random inspections during the Project execution, as and when deemed necessary by it. If the shortfalls as intimated to the TSP are not remedied to the satisfaction of the CEA and/ or the Nodal Agency, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.



## Transmission Service Agreement

**ARTICLE: 6****6. CONNECTION AND COMMISSIONING OF THE PROJECT****6.1 Connection with the Inter-Connection Facilities:**

- 6.1.1 The TSP shall give the RLDC(s), CTU, / STU, as the case may be, and any other agencies as required, at least sixty (60) days advance written notice of the date on which it intends to connect an Element of the Project, which date shall not be earlier than its Scheduled COD or Schedule COD extended as per Article 4.4.1 & 4.4.2 of this Agreement, unless mutually agreed to by Parties. Further, any preponing of COD of any element prior to Scheduled COD must be approved by the Nodal Agency.
- 6.1.2 The RLDC / SLDC (as the case may be) or the CTU / STU (as the case may be), for reasonable cause, including non-availability of Interconnection Facilities as per Article 4.2, can defer the connection for up to fifteen (15) days from the date notified by the TSP pursuant to Article 6.1.1, if it notifies to the TSP in writing, before the date of connection, of the reason for the deferral and when the connection is to be rescheduled. However, no such deferment on one or more occasions would be for more than an aggregate period of thirty (30) days. Further, the Scheduled COD would be extended as required, for all such deferments on "day to day" basis.
- 6.1.3 Subject to Articles 6.1.1 and 6.1.2, any Element of Project may be connected with the Interconnection Facilities when:
- a. it has been completed in accordance with this Agreement and the Connection Agreement;
  - b. it meets the Grid Code, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time to time and all other Indian legal requirements, and
  - c. The TSP has obtained the approval in writing of the Electrical Inspector certifying that the Element is ready from the point of view of safety of supply and can be connected with the Interconnection Facilities.
  - d. It has satisfactorily met all the testing requirements as per Articles 6.1.4.
- 6.1.4 Site Acceptance Test (SAT)/ pre-commissioning tests of all major substation equipment, component, system, facilities shall be successfully carried out before commissioning. The Type tests, FAT and SAT reports should be available at the substation / terminal station of HVDC installations for ready reference of operation and maintenance staff and has to be made available to the Independent Engineer



## Transmission Service Agreement

appointed for quality monitoring or their authorised representatives, as and when they wish to examine the same.

## 6.2 Commercial Operation:

- 6.2.1 An Element of the Project shall be declared to have achieved COD twenty four (24) hours following the connection of the Element with the Interconnection Facilities pursuant to Article 6.1 or seven (7) days after the date on which it is declared by the TSP to be ready for charging but is not able to be charged for reasons not attributable to the TSP subject to Article 6.1.2.

Provided that an Element shall be declared to have achieved COD only after all the Element(s), if any, which are pre-required to have achieved COD as defined in Schedule 2 of this Agreement, have been declared to have achieved their respective COD.

- 6.2.2 Once any Element of the Project has been declared to have achieved deemed COD as per Article 6.2.1 above, such Element of the Project shall be deemed to have Availability equal to the Target Availability till the actual charging of the Element and to this extent, TSP shall be eligible for the Monthly Transmission Charges applicable for such Element.

## 6.3 Compensation for Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event (affecting the Nodal Agency)

- 6.3.1 If the TSP is otherwise ready to connect the Element(s) of the Project and has given due notice, as per provisions of Article 6.1.1, to the concerned agencies of the date of intention to connect the Element(s) of the Project, where such date is not before the Scheduled COD, but is not able to connect the Element(s) of the Project by the said date specified in the notice, due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, provided such Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency has continued for a period of more than three (3) continuous or non-continuous Months, the TSP shall, until the effects of the Direct Non Natural Force Majeure Event or of Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency no longer prevent the TSP from connecting the Element(s) of the Project, be deemed to have achieved COD relevant to that date and to this extent, be deemed to have been providing Transmission Service with effect from the date notified, and shall be treated as follows:

- a. In case of delay due to Direct Non Natural Force Majeure Event, TSP is entitled for Transmission Charges calculated on Target Availability for the period of such events in excess of three (3) continuous or non-continuous



### Transmission Service Agreement

Months in the manner provided in (c) below.

- b. In case of delay due to Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is entitled for payment for debt service which is due under the Financing Agreements, subject to a maximum of Transmission Charges calculated on Target Availability, for the period of such events in excess of three (3) continuous or non continuous Months in the manner provided in (c) below.
- c. In case of delay due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, the TSP is entitled for payments mentioned in (a) and (b) above, after commencement of Transmission Service, in the form of an increase in Transmission Charges. These amounts shall be paid from the date, being the later of a) the date of cessation of such Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency and b) the completion of sixty (60) days from the receipt of the Financing Agreements by the Nodal Agency from the TSP.

Provided such increase in Transmission Charges shall be so as to put the TSP in the same economic position as the TSP would have been in case the TSP had been paid amounts mentioned in (a) and (b) above in a situation where the Force Majeure Event had not occurred.

For the avoidance of doubt, it is clarified that the charges payable under this Article 6.3.1 shall be recovered as per Sharing Regulations.

#### 6.4 Liquidated Damages for Delay in achieving COD of Project:

- 6.4.1 If the TSP fails to achieve COD of any Element of the Project or the Project, by the Element's / Project's Scheduled COD or such Scheduled COD as extended under Articles 4.4.1 and 4.4.3, then the TSP shall pay to the Nodal Agency, a sum equivalent to 3.33% of Monthly Transmission Charges applicable for the Element of the Project [in case where no Elements have been defined, to be on the Project as a whole] / Project, for each day of delay up to sixty (60) days of delay and beyond that time limit, at the rate of five percent (5%) of the Monthly Transmission Charges applicable to such Element / Project, as liquidated damages for such delay and not





**Transmission Service Agreement**

as penalty, without prejudice to any rights of the Nodal Agency under the Agreement.

- 6.4.2 The TSP's maximum liability under this Article 6.4 shall be limited to the amount of liquidated damages calculated in accordance with Article 6.4.1 for and up to six (6) months of delay for the Element or the Project.

Provided that, in case of failure of the TSP to achieve COD of the Element of the Project even after the expiry of six (6) months from its Scheduled COD, the provisions of Article 13 shall apply.

- 6.4.3 The TSP shall make payment to the Nodal Agency of the liquidated damages calculated pursuant to Article 6.4.1 within ten (10) days of the earlier of:

- a. the date on which the applicable Element achieves COD; or
- b. the date of termination of this Agreement.

The payment of such damages shall not relieve the TSP from its obligations to complete the Project or from any other obligation and liabilities under the Agreement.

- 6.4.4 If the TSP fails to pay the amount of liquidated damages to the Nodal Agency within the said period of ten (10) days, the Nodal Agency shall be entitled to recover the said amount of the liquidated damages by invoking the Contract Performance Guarantee. If the then existing Contract Performance Guarantee is for an amount which is less than the amount of the liquidated damages payable by the TSP to the Nodal Agency under this Article 6.3 and the TSP fails to make payment of the balance amount of the liquidated damages not covered by the Contract Performance Guarantee, then such balance amount shall be deducted from the Transmission Charges payable to the TSP. The right of the Nodal Agency to encash the Contract Performance Guarantee is without prejudice to the other rights of the Nodal Agency under this Agreement.

- 6.4.5 For avoidance of doubt, it is clarified that amount payable by TSP under this Article is over and above the penalty payable by TSP under Article 5.5.6 of this Agreement.

**6.5 Return of Contract Performance Guarantee**

- 6.5.1 The Contract Performance Guarantee as submitted by TSP in accordance with Article 3.1.1 shall be released by the Nodal Agency within three (3) months from the COD of the Project. In the event of delay in achieving Scheduled COD of any of the Elements by the TSP (otherwise than due to reasons as mentioned in Article 3.1.3 or Article 11) and consequent part invocation of the Contract Performance Guarantee by the Nodal Agency, Nodal Agency shall release the Contract Performance



### Transmission Service Agreement

Guarantee, if any remaining unadjusted, after the satisfactory completion by the TSP of all the requirements regarding achieving the Scheduled COD of the remaining Elements of the Project. It is clarified that the Nodal Agency shall also return / release the Contract Performance Guarantee in the event of (i) applicability of Article 3.3.2 to the extent the Contract Performance Guarantee is valid for an amount in excess of **Rs 70 Crore (Rupees Seventy Crore Only)**, or (ii) termination of this Agreement by the Nodal Agency as mentioned under Article 3.3.4 of this Agreement.

- 6.5.2 The release of the Contract Performance Guarantee shall be without prejudice to other rights of the Nodal Agency under this Agreement.

Central Transmission Utility of India Limited

36

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

**ARTICLE: 7****7. OPERATION AND MAINTENANCE OF THE PROJECT****7.1 Operation and Maintenance of the Project:**

The TSP shall be responsible for ensuring that the Project is operated and maintained in accordance with the regulations made by the Commission and CEA from time to time and provisions of the Act.

Central Transmission Utility of India Limited

37

PUNE-III TRANSMISSION LIMITED



## Transmission Service Agreement

**ARTICLE: 8****8. AVAILABILITY OF THE PROJECT****8.1 Calculation of Availability of the Project:**

Calculation of Availability for the Elements and for the Project, as the case may be, shall be as per **Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024**, as applicable on the Bid Deadline and as appended in Schedule 6 of this Agreement.

**8.2 Target Availability:**

The Target Availability of each Element and the Project shall be **98%**.

Payment of monthly Transmission charges based on actual availability will be calculated as per para 1.2 of Schedule 4 of this Agreement.

If the availability of any Element or the Project is below the Target Availability, for six consecutive months in a Contract Year, the DIC(s) or the Nodal Agency may issue a show cause notice to the TSP, asking them to show cause as to why the Transmission Service Agreement be not terminated, and if no satisfactory cause is shown it may terminate the Agreement. If the Nodal Agency is of the opinion that the transmission system is of critical importance, it may carry out or cause to carry the operation and maintenance of transmission system at the risk and cost of TSP.





## Transmission Service Agreement

**ARTICLE: 9****9. INSURANCES****9.1 Insurance:**

9.1.1 The TSP shall effect and maintain or cause to be effected and maintained during the Construction Period and the Operating Period, adequate Insurances against such risks, with such deductibles including but not limited to any third party liability and endorsements and co-beneficiary/insured, as may be necessary under

- a any of the Financing Agreements,
- b the Laws, and
- c in accordance with Prudent Utility Practices.

The Insurances shall be taken effective from a date prior to the date of the Financial Closure till the Expiry Date.

**9.2 Evidence of Insurance cover:**

9.2.1 The TSP shall furnish to the Nodal Agency copies of certificates and policies of the Insurances, as and when the Nodal Agency may seek from the TSP as per the terms of Article 9.1

**9.3 Application of Insurance Proceeds:**

9.3.1 Save as expressly provided in this Agreement, the policies of Insurances and the Financing Agreements, the proceeds of any insurance claim made due to loss or damage to the Project or any part of the Project shall be first applied to reinstatement, replacement or renewal of such loss or damage.

9.3.2 If a Natural Force Majeure Event renders the Project no longer economically and technically viable and the insurers under the Insurances make payment on a "total loss" or equivalent basis, the portion of the proceeds of such Insurance available to the TSP (after making admissible payments to the Lenders as per the Financing Agreements) shall be allocated only to the TSP. Nodal Agency and / or concerned Designated ISTS Customers shall have no claim on such proceeds of the Insurance.

9.3.3 Subject to the requirements of the Lenders under the Financing Agreements, any dispute or difference between the Parties as to whether the Project is no longer economically and technically viable due to a Force Majeure Event or whether that event was adequately covered in accordance with this Agreement by the Insurances shall be determined in accordance with Article 16.

Central Transmission Utility of India Limited

39

PUNE-III TRANSMISSION LIMITED



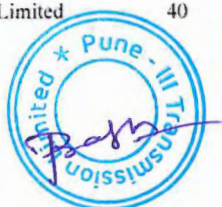
**Transmission Service Agreement****9.4 Effect on liability of the Nodal Agency / Designated ISTS Customers**

- 9.4.1 The Nodal Agency and / or the Designated ISTS Customers shall have no financial obligations or liability whatsoever towards the TSP in respect of this Article 9.

Central Transmission Utility of India Limited

40

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

**ARTICLE: 10****10. BILLING AND PAYMENT OF TRANSMISSION CHARGES**

**10.1** Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of the Sharing Regulations, from the date on which an Element(s) has achieved COD until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement.

**10.2 Calculation of Monthly Transmission Charges:**

The Monthly Transmission Charges for each Contract Year including Incentive & Penalty payment shall be calculated in accordance with the provisions of Schedule 4 of this Agreement.

**10.3 Rebate & Late Payment Surcharge:**

The rebate and late payment surcharge shall be governed as per Sharing Regulations.

**10.4 Disputed Bills, Default in payment by the Designated ISTS Customers & Annual Reconciliation:**

Any Disputed Bill, Default in payment by the Designated ISTS Customers & Annual Reconciliation shall be governed as per Sharing Regulations.

  
 Central Transmission Utility of India Limited

41

  
 PUNE- III TRANSMISSION LIMITED


**ARTICLE: 11****11. FORCE MAJEURE****11.1 Definitions**

11.1.1 The following terms shall have the meanings given hereunder.

**11.2 Affected Party**

11.2.1 An Affected Party means any Party whose performance has been affected by an event of Force Majeure.

11.2.2 Any event of Force Majeure shall be deemed to be an event of Force Majeure affecting the TSP only if the Force Majeure event affects and results in, late delivery of machinery and equipment for the Project or construction, completion, commissioning of the Project by Scheduled COD and/or operation thereafter;

**11.3 Force Majeure**

A 'Force Majeure' means any event or circumstance or combination of events and circumstances including those stated below that wholly or partly prevents or unavoidably delays an Affected Party in the performance of its obligations/ roles under this Agreement, but only if and to the extent that such events or circumstances are not within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided if the Affected Party had taken reasonable care or complied with Prudent Utility Practices:

**a) Natural Force Majeure Events:**

- i. act of God, including, but not limited to drought, fire and explosion (to the extent originating from a source external to the Site), earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, or exceptionally adverse weather conditions, which are in excess of the statistical measures for the last hundred (100) years; and
- ii. epidemic/ pandemic notified by Indian Governmental Instrumentality.

**b) Non-Natural Force Majeure Events:**

- i. Direct Non-Natural Force Majeure Events
  - Nationalization or compulsory acquisition by any Indian Governmental Instrumentality of any material assets or rights of the Affected Party; or





#### Transmission Service Agreement

- the unlawful, unreasonable or discriminatory revocation of, or refusal to renew, any Consents, Clearances and Permits required by the Affected Party to perform their obligations/ roles under the RFP Project Documents or any unlawful, unreasonable or discriminatory refusal to grant any other Consents, Clearances and Permits required for the development/ operation of the Project, provided that a Competent Court of Law declares the revocation or refusal to be unlawful, unreasonable and discriminatory and strikes the same down; or
- any other unlawful, unreasonable or discriminatory action on the part of an Indian Governmental Instrumentality which is directed against the Project, provided that a Competent Court of Law declares the action to be unlawful, unreasonable and discriminatory and strikes the same down.

#### ii. Indirect Non - Natural Force Majeure Events

- act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action; or
- radio active contamination or ionising radiation originating from a source in India or resulting from any other Indirect Non Natural Force Majeure Event mentioned above, excluding circumstances where the source or cause of contamination or radiation is brought or has been brought into or near the Site by the Affected Party or those employed or engaged by the Affected Party; or
- industry-wide strikes and labour disturbances, having a nationwide impact in India.

#### 11.4 Force Majeure Exclusions

11.4.1 Force Majeure shall not include (i) any event or circumstance which is within the reasonable control of the Parties and (ii) the following conditions, except to the extent that they are consequences of an event of Force Majeure:

- (a) Unavailability, late delivery, or changes in cost of the machinery, equipment, materials, spare parts etc. for the Project;
- (b) Delay in the performance of any Contractors or their agents;
- (c) Non-performance resulting from normal wear and tear typically experienced in transmission materials and equipment;



### Transmission Service Agreement

- (d) Strikes or labour disturbance at the facilities of the Affected Party;
- (e) Insufficiency of finances or funds or the Agreement becoming onerous to perform; and
- (f) Non-performance caused by, or connected with, the Affected Party's:
  - i. negligent or intentional acts, errors or omissions;
  - ii. failure to comply with an Indian Law; or
  - iii. breach of, or default under this Agreement or any Project Documents.
- (g) Any error or omission in the survey report provided by BPC during the bidding process.

### 11.5 Notification of Force Majeure Event

11.5.1 The Affected Party shall give notice to the other Party of any event of Force Majeure as soon as reasonably practicable, but not later than seven (7) days after the date on which such Party knew or should reasonably have known of the commencement of the event of Force Majeure. If an event of Force Majeure results in a breakdown of communications rendering it unreasonable to give notice within the applicable time limit specified herein, then the Party claiming Force Majeure shall give such notice as soon as reasonably practicable after reinstatement of communications, but not later than one (1) day after such reinstatement.

Provided that, such notice shall be a pre-condition to the Affected Party's entitlement to claim relief under this Agreement. Such notice shall include full particulars of the event of Force Majeure, its effects on the Party claiming relief and the remedial measures proposed. The Affected Party shall give the other Party regular reports on the progress of those remedial measures and such other information as the other Party may reasonably request about the Force Majeure.

11.5.2 The Affected Party shall give notice to the other Party of (i) the cessation of the relevant event of Force Majeure; and (ii) the cessation of the effects of such event of Force Majeure on the performance of its rights or obligations/ roles under this Agreement, as soon as practicable after becoming aware of each of these cessations.

### 11.6 Duty to perform and duty to mitigate

To the extent not prevented by a Force Majeure Event, the Affected Party shall continue to perform its obligations/ roles as provided in this Agreement. The Affected Party shall use its reasonable efforts to mitigate the effect of any event of Force Majeure as soon as practicable.



## Transmission Service Agreement

**11.7 Available Relief for a Force Majeure Event**

Subject to this Article 11,

- (a) no Party shall be in breach of its obligations/ roles pursuant to this Agreement to the extent that the performance of its obligations/ roles was prevented, hindered or delayed due to a Force Majeure Event;
- (b) each Party shall be entitled to claim relief for a Force Majeure Event affecting its performance in relation to its obligations/ roles under Articles 3.3.4, 4.4.2 and 6.3.1 of this Agreement.
- (c) For the avoidance of doubt, it is clarified that the computation of Availability of the Element(s) under outage due to Force Majeure Event, as per Article 11.3 affecting the TSP shall be as per Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 as on Bid Deadline. For the event(s) for which the Element(s) is/are deemed to be available as per Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, then the Transmission Charges, as applicable to such Element(s), shall be payable as per Schedule 4, for the duration of such event(s).
- (d) For so long as the TSP is claiming relief due to any Force Majeure Event under this Agreement, the Nodal Agency may, if it so desires, from time to time on one (1) day notice, inspect the Project and the TSP shall provide the Nodal Agency's personnel with access to the Project to carry out such inspections.
- (e) For avoidance of doubt, the TSP acknowledges that for extension of Scheduled COD a period up to one hundred eighty (180) days due to Force Majeure event, no compensation on the grounds such as interest cost, incident expenditure, opportunity cost will be made to the TSP. However, if Scheduled COD is extended beyond a period of one hundred eighty (180) days due to Force Majeure event, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.



## Transmission Service Agreement

**ARTICLE: 12****12. CHANGE IN LAW****12.1 Change in Law**

12.1.1 Change in Law means the occurrence of any of the following after the Bid Deadline resulting into any additional recurring / non-recurring expenditure by the TSP or any savings of the TSP:

- the enactment, coming into effect, adoption, promulgation, amendment, modification or repeal (without re-enactment or consolidation) in India, of any Law, including rules and regulations framed pursuant to such Law, subject to the provisions under Article 12.1.2;
- a change in the interpretation or application of any Law by any Indian Governmental Instrumentality having the legal power to interpret or apply such Law, or any Competent Court of Law;
- the imposition of a requirement for obtaining any Consents, Clearances and Permits which was not required earlier;
- a change in the terms and conditions prescribed for obtaining any Consents, Clearances and Permits or the inclusion of any new terms or conditions for obtaining such Consents, Clearances and Permits;
- any change in the licensing regulations of the Commission, under which the Transmission License for the Project was granted if made applicable by such Commission to the TSP;
- change in wind zone; or
- any change in tax or introduction of any tax made applicable for providing Transmission Service by the TSP as per the terms of this Agreement.

12.1.2 Notwithstanding anything contained in this Agreement, Change in Law shall not cover any change:

- a) Taxes on corporate income; and
- b) Withholding tax on income or dividends distributed to the shareholders of the TSP.





### Transmission Service Agreement

#### 12.2 Relief for Change in Law

12.2.1 During Construction Period, the impact of increase/decrease in the cost of the Project on the Transmission Charges shall be governed by the formula given in Schedule 9 of this Agreement

12.2.2 During the Operation Period:

During the operation period, if as a result of Change in Law, the TSP suffers or is benefited from a change in costs or revenue, the aggregate financial effect of which exceeds 0.30% (zero point three percent) of the Annual Transmission Charges in aggregate for a Contract Year, the TSP may notify so to the Nodal Agency and propose amendments to this Agreement so as to place the TSP in the same financial position as it would have enjoyed had there been no such Change in Law resulting in change in costs or revenue as aforesaid.

12.2.3 For any claims made under Articles 12.2.1 and 12.2.2 above, the TSP shall provide to the Nodal Agency documentary proof of such increase / decrease in cost of the Project / revenue for establishing the impact of such Change in Law.

In cases where Change in Law results in decrease of cost and it comes to the notice of Nodal Agency that TSP has not informed Nodal Agency about such decrease in cost, Nodal Agency may initiate appropriate claim.

#### 12.3 Notification of Change in Law:

12.3.1 If the TSP is affected by a Change in Law in accordance with Article 12.1 and wishes to claim relief for such Change in Law under this Article 12, it shall give notice to Nodal Agency of such Change in Law as soon as reasonably practicable after becoming aware of the same.

12.3.2 The TSP shall also be obliged to serve a notice to the Nodal Agency even when it is beneficially affected by a Change in Law.

12.3.3 Any notice served pursuant to Articles 12.3.1 and 12.3.2 shall provide, amongst other things, precise details of the Change in Law and its estimated impact on the TSP.

#### 12.4 Payment on account of Change in Law

12.4.1 The payment for Change in Law shall be through a separate Bill. However, in case of any change in Monthly Transmission Charges by reason of Change in Law, as determined in accordance with this Agreement, the Bills to be raised by the Nodal Agency after such change in Transmission Charges shall appropriately reflect the changed Monthly Transmission Charges.



**ARTICLE: 13****13. EVENTS OF DEFAULT AND TERMINATION****13.1 TSP's Event of Default**

The occurrence and continuation of any of the following events shall constitute a TSP Event of Default, unless any such TSP Event of Default occurs as a result of any non-fulfilment of its obligations as prescribed under this Agreement by the Nodal Agency or a Force Majeure Event:

- a. After having taken up the construction of the Project, the abandonment by the TSP or the TSP's Contractors of the construction of the Project for a continuous period of two (2) months and such default is not rectified within thirty (30) days from the receipt of notice from the Nodal Agency in this regard;
- b. The failure to commission any Element of the Project by the date falling six (6) months after its Scheduled COD unless extended by Nodal Agency as per provisions of this Agreement;
- c. If the TSP:
  - i. assigns, mortgages or charges or purports to assign, mortgage or charge any of its assets or rights related to the Project in contravention of the provisions of this Agreement; or
  - ii. transfers or novates any of its obligations pursuant to this Agreement, in a manner contrary to the provisions of this Agreement;

Except where such transfer is in pursuance of a Law and

- it does not affect the ability of the transferee to perform, and such transferee has the financial and technical capability to perform, its obligations under this Agreement;
- is to a transferee who assumes such obligations under the Project and this Agreement remains effective with respect to the transferee;

- d. If:
  - i. The TSP becomes voluntarily or involuntarily the subject of any bankruptcy or insolvency or winding up proceedings and such



**Transmission Service Agreement**

proceedings remain uncontested for a period of thirty (30) days;  
or

- ii. any winding up or bankruptcy or insolvency order is passed against the TSP; or
- iii. the TSP goes into liquidation or dissolution or a receiver or any similar officer is appointed over all or substantially all of its assets or official liquidator is appointed to manage its affairs, pursuant to Law,

Provided that a dissolution or liquidation of the TSP will not be a TSP's Event of Default, where such dissolution or liquidation of the TSP is for the purpose of a merger, consolidation or reorganization with the prior approval of the Commission as per the provisions of Central Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 or as amended from time to time; or

- e. Failure on the part of the TSP to comply with the provisions of Article 19.1 of this Agreement; or
- f. the TSP repudiates this Agreement and does not rectify such breach even within a period of thirty (30) days from a notice from the Nodal Agency in this regard; or
- g. after Commercial Operation Date of the Project, the TSP fails to achieve monthly Target Availability of 98% for a period of six (6) consecutive months or within a non-consecutive period of six (6) months within any continuous aggregate period of eighteen(18) months except where the Availability is affected by Force Majeure Events as per Article 11; or
- h. any of the representations and warranties made by the TSP in Article 17 of this Agreement being found to be untrue or inaccurate. Further, in addition to the above, any of the undertakings submitted by the Selected Bidder at the time of submission of the Bid being found to be breached or inaccurate, including but not limited to undertakings from its Parent Company / Affiliates related to the minimum equity obligation; or
- i. the TSP fails to complete / fulfil all the activities / conditions within the specified period as per Article 3; or



**Transmission Service Agreement**

- j. except for the reasons solely attributable to Nodal Agency, the TSP is in material breach of any of its obligations under this Agreement and such material breach is not rectified by the TSP within thirty (30) days of receipt of notice in this regard from the Nodal Agency; or
- k. the TSP fails to take the possession of the land required for location specific substations, switching stations or HVDC terminal or inverter stations and / or fails to pay the requisite price to the parties and / or any State Government authority from whom the land is acquired, within twelve (12) months from the Effective Date.

**13.2 Termination Procedure for TSP Event of Default**

- a. Upon the occurrence and continuance of any TSP's Event of Default under Article 13.1 the Nodal Agency may serve notice on the TSP, with a copy to the CEA and the Lenders' Representative, of their intention to terminate this Agreement (a "Nodal Agency's Preliminary Termination Notice"), which shall specify in reasonable detail, the circumstances giving rise to such Nodal Agency's Preliminary Termination Notice.
- b. Following the issue of a Nodal Agency's Preliminary Termination Notice, the Consultation Period shall apply and would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant Event of Default having regard to all the circumstances.
- c. During the Consultation Period, the Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement, and the TSP shall not remove any material, equipment or any part of the Project, without prior consent of the Nodal Agency.

Following the expiry of the Consultation Period, unless the Parties shall have otherwise agreed to the contrary or the circumstances giving rise to Nodal Agency's Preliminary Termination Notice shall have ceased to exist or shall have been remedied, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

Further, the Nodal Agency may also initiate proceedings to blacklist the TSP & its Affiliates from participation in any RFP issued by BPCs for a period of 5 years.





## Transmission Service Agreement

**13.3 Procedure for Nodal Agency's non-fulfilment of Role**

- a. Upon the Nodal Agency not being able to fulfil its role under Article 4.2, the TSP may serve notice on the Nodal Agency, with a copy to CEA and the Lenders' Representative (a "TSP's Preliminary Notice"), which notice shall specify in reasonable detail the circumstances giving rise to such non-fulfilment of role by the Nodal Agency.
- b. Following the issue of a TSP's Preliminary Notice, the Consultation Period shall apply.
- c. The Consultation Period would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant non-fulfilment of role by the Nodal Agency including giving time extension to TSP, having regard to all the circumstances.
- d. During the Consultation Period, both Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement.

**13.4 Termination due to Force Majeure**

- 13.4.1 In case the Parties could not reach an agreement pursuant to Articles 3.3.4 and 4.4.2 of this Agreement and the Force Majeure Event or its effects continue to be present, the Nodal Agency shall have the right to cause termination of the Agreement. In case of such termination, the Contract Performance Guarantee shall be returned to the TSP as per the provisions of Article 6.5.1.
- 13.4.2 In case of termination of this Agreement, the TSP shall provide to the Nodal Agency the full names and addresses of its Contractors as well as complete designs, design drawings, manufacturing drawings, material specifications and technical information, as required by the Nodal Agency within thirty (30) days of Termination Notice.

**13.5 Termination or amendment due to non-requirement of any Element or Project during construction**

- 13.5.1 In case any Element or Project, which is under construction, is no longer required due to any reason whatsoever, the Nodal Agency may issue a notice to this effect to the TSP.
- 13.5.2 Nodal agency may also issue notice to the TSP seeking their response to the proposed termination/ amendment (as the case may be) of the Agreement. The Nodal Agency shall issue copy of such notice to Lenders. In the notice, Nodal Agency



### Transmission Service Agreement

shall also include an assessment of the physical progress made by TSP in the Element/ Project (as the case may be) that is no longer required.

13.5.3 The TSP shall neither carry out further investment nor carry out any work on the Element/ Project (as the case may be) that is no longer required after delivery of the notice.

13.5.4 After taking into account the comments of the TSP, the Nodal Agency may terminate the Agreement or amend it if both Parties agree to the amendment.

### 13.6 Revocation of the Transmission License

13.6.1 The Commission may, as per the provisions of the Electricity Act, 2003, revoke the Transmission License of the ISTS Licensee. Further, in such a case, the Agreement shall be deemed to have been terminated.

### 13.7 Termination Payment

13.7.1 If Agreement is terminated on account of Force Majeure Events, non-requirement of any Element or Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets.



## Transmission Service Agreement

**ARTICLE: 14****14. LIABILITY AND INDEMNIFICATION****14.1 Indemnity**

14.1.1 The TSP shall indemnify, defend and hold the Nodal Agency harmless against:

- (a) any and all third party claims, actions, suits or proceedings against the Nodal Agency for any loss of or damage to property of such third party, or death or injury to such third party, arising out of a breach by the TSP of any of its obligations under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of Nodal Agency; and
- (b) any and all losses, damages, costs and expenses including legal costs, fines, penalties and interest actually suffered or incurred by the Nodal Agency from third party claims arising by reason of:
  - i. a breach by the TSP of any of its obligations under this Agreement, (provided that this Article 14 shall not apply to such breaches by the TSP, for which specific remedies have been provided for under this Agreement) except to the extent that any such losses, damages, costs and expenses including legal costs, fines, penalties and interest (together to constitute "Indemnifiable Losses") has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of the Nodal Agency, or
  - ii. any of the representations and warranties of the TSP under this Agreement being found to be inaccurate or untrue.

14.1.2 The Nodal Agency shall, in accordance with the Regulations framed by CERC in this regard, indemnify, defend and hold the TSP harmless against:

- (a) any and all third party claims, actions, suits or proceedings against the TSP, for any loss of or damage to property of such third party, or death or injury to such third party, arising out of any material breach by the Nodal Agency of any of their roles under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents; and
- (b) any and all losses, damages, costs and expenses including legal costs, fines,



### Transmission Service Agreement

penalties and interest ('Indemnifiable Losses') actually suffered or incurred by the TSP from third party claims arising by reason of:

- i. any material breach by the Nodal Agency of any of its roles under this Agreement (provided that, this Article 14 shall not apply to such breaches by the Nodal Agency, for which specific remedies have been provided for under this Agreement), except to the extent that any such Indemnifiable Losses have arisen due to a negligent act or omission, breach of this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents or
- ii. any of the representations and warranties of the Nodal Agency under this Agreement being found to be inaccurate or untrue.

### 14.2 Patent Indemnity:

#### 14.2.1

- (a) The TSP shall, subject to the Nodal Agency's compliance with Article 14.2.1 (b), indemnify and hold harmless the Nodal Agency and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Nodal Agency may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.

Such indemnity shall not cover any use of the Project or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Agreement, any infringement resulting from the misuse of the Project or any part thereof, or any products produced in association or combination with any other equipment, plant or materials not supplied by the TSP, pursuant to the Agreement.

- (b) If any proceedings are brought or any claim is made against the Nodal Agency arising out of the matters referred to in Article 14.2.1(a), the Nodal Agency shall promptly give the TSP a notice thereof, and the TSP shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The TSP shall promptly notify the Nodal Agency of all actions taken in such proceedings or claims.
- (c) If the TSP fails to notify the Nodal Agency within twenty-eight (28) days after





## Transmission Service Agreement

receipt of such notice from the Nodal Agency under Article 14.2.1(b) above, that it intends to attend any such proceedings or claim, then the Nodal Agency shall be free to attend the same on their own behalf at the cost of the TSP. Unless the TSP has so failed to notify the Nodal Agency within the twenty eight (28) days period, the Nodal Agency shall make no admission that may be prejudicial to the defence of any such proceedings or claims.

- (d) The Nodal Agency shall, at the TSP's request, afford all available assistance to the TSP in attending to such proceedings or claim, and shall be reimbursed by the TSP for all reasonable expenses incurred in so doing.

## 14.2.2

- (a) The Nodal Agency, in accordance with the Regulations framed by CERC in this regard, subject to the TSP's compliance with Article 14.2.2(b) shall indemnify and hold harmless the TSP and its employees, officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs and expenses of whatsoever nature, including attorney's fees and expenses, which the TSP may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.
- (b) If any proceedings are brought or any claim is made against the TSP arising out of the matters referred to in Article 14.2.2 (a) the TSP shall promptly give the Nodal Agency a notice thereof, and the Nodal Agency shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The Nodal Agency shall promptly notify the TSP of all actions taken in such proceedings or claims.
- (c) If the Nodal Agency fails to notify the TSP within twenty-eight (28) days after receipt of such notice from the TSP under Article 14.2.2(b) above, that it intends to attend any such proceedings or claim, then the TSP shall be free to attend the same on its own behalf at the cost of the Nodal Agency. Unless the Nodal Agency has so failed to notify the TSP within the twenty (28) days period, the TSP shall make no admission that may be prejudicial to the defence of any such proceedings or claim.
- (d) The TSP shall, at the Nodal Agency request, afford all available assistance to the Nodal Agency in attending to such proceedings or claim, and shall be reimbursed by the Nodal Agency for all reasonable expenses incurred in so



Central Transmission Utility of India Limited

55

PUNE-III TRANSMISSION LIMITED



## Transmission Service Agreement

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### 14.3 Monetary Limitation of liability

14.3.1 A Party ("Indemnifying Party") shall be liable to indemnify the other Party ("Indemnified Party") under this Article 14 for any indemnity claims made in a Contract Year only up to an amount of **Rs. 4.67 Crore (Rupees Four Crore Sixty Seven Lakh Only)**.

### 14.4 Procedure for claiming indemnity

14.4.1 Where the Indemnified Party is entitled to indemnification from the Indemnifying Party pursuant to Articles 14.1 or 14.2 the Indemnified Party shall promptly notify the Indemnifying Party of such claim, proceeding, action or suit referred to in Articles 14.1 or 14.2 in respect of which it is entitled to be indemnified. Such notice shall be given as soon as reasonably practicable after the Indemnified Party becomes aware of such claim, proceeding, action or suit. The Indemnifying Party shall be liable to settle the indemnification claim within thirty (30) days of receipt of the above notice.

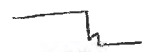
Provided however that, if:

- i. the Parties choose to contest, defend or litigate such claim, action, suit or proceedings in accordance with Article 14.4.3 below; and
- ii. the claim amount is not required to be paid/deposited to such third party pending the resolution of the Dispute,

the Indemnifying Party shall become liable to pay the claim amount to the Indemnified Party or to the third party, as the case may be, promptly following the resolution of the Dispute, if such Dispute is not settled in favour of the Indemnified Party.

14.4.2 The Indemnified Party may contest, defend and litigate a claim, action, suit or proceeding for which it is entitled to be indemnified under Articles 14.1 or 14.2 and the Indemnifying Party shall reimburse to the Indemnified Party all reasonable costs and expenses incurred by the Indemnified Party. However, such Indemnified Party shall not settle or compromise such claim, action, suit or proceedings without first getting the consent of the Indemnifying Party, which consent shall not be unreasonably withheld or delayed.

14.4.3 An Indemnifying Party may, at its own expense, assume control of the defence of any proceedings brought against the Indemnified Party if it acknowledges its obligation to indemnify such Indemnified Party, gives such Indemnified Party prompt notice of its intention to assume control of the defence, and employs an independent legal counsel at its own cost that is reasonably satisfactory to the Indemnified Party.

  
Central Transmission Utility of India Limited

56

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

**14.5 Limitation on Liability**

14.5.1 Except as expressly provided in this Agreement, neither the TSP nor the Nodal Agency nor their respective officers, directors, agents, employees or Affiliates (including, officers, directors, agents or employees of such Affiliates), shall be liable or responsible to the other Party or its Affiliates including its officers, directors, agents, employees, successors, insurers or permitted assigns for incidental, indirect or consequential, punitive or exemplary damages, connected with or resulting from performance or non-performance of this Agreement, or anything done in connection herewith, including claims in the nature of lost revenues, income or profits (other than payments expressly required and properly due under this Agreement), any increased expense of, reduction in or loss of transmission capacity or equipment used therefore, irrespective of whether such claims are based upon breach of warranty, tort (including negligence, whether of the Nodal Agency, the TSP or others), strict liability, contract, breach of statutory duty, operation of law or otherwise.

14.5.2 The Nodal Agency shall have no recourse against any officer, director or shareholder of the TSP or any Affiliate of the TSP or any of its officers, directors or shareholders for such claims excluded under this Article. The TSP shall also have no recourse against any officer, director or shareholder of the Nodal Agency, or any Affiliate of the Nodal Agency or any of its officers, directors or shareholders for such claims excluded under this Article.

**14.6 Duty to Mitigate**

The party entitled to the benefit of an indemnity under this Article 14 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the Party fails to take such measures, the other Party's liabilities shall be correspondingly reduced.



**ARTICLE: 15****15. ASSIGNMENTS AND CHARGES****15.1 Assignments:**

- 15.1.1 This Agreement shall be binding upon, and inure to the benefit of the Parties and their respective successors and permitted assigns. This Agreement shall not be assigned by any Party, except as provided in Article 15.3.

**15.2 Permitted Charges:**

- 15.2.1 Neither Party shall create or permit to subsist any encumbrance over all or any of its rights and benefits under this Agreement.
- 15.2.2 However, the TSP may create any encumbrance over all or part of the receivables, or the Project Assets of the Project in favour of the Lenders or the Lenders' Representative on their behalf, as security for amounts payable under the Financing Agreements and any other amounts agreed by the Parties.

Provided that:

- i. the Lenders or the Lenders' Representative on their behalf shall have entered into the Financing Agreements and agreed in writing to the provisions of this Agreement; and
  - ii. any encumbrance granted by the TSP in accordance with this Article 15.2.2 shall contain provisions pursuant to which the Lenders or the Lender's Representative on their behalf agrees unconditionally with the TSP to release from such encumbrances upon payment by the TSP to the Lenders of all amounts due under the Financing Agreements.
- 15.2.3 Article 15.2.1 does not apply to:
- a. liens arising by operation of law (or by an agreement evidencing the same) in the ordinary course of the TSP developing and operating the Project;
  - b. pledges of goods, the related documents of title and / or other related documents, arising or created in the ordinary course of the TSP developing and operating the Project; or
  - c. security arising out of retention of title provisions in relation to goods acquired in the ordinary course of the TSP developing and operating the Project.





## Transmission Service Agreement

**15.3 Substitution Rights of the Lenders**

- 15.3.1 The TSP would need to operate and maintain the Project under the provisions of this Agreement and cannot assign the Transmission License or transfer the Project or part thereof to any person by sale, lease, exchange or otherwise, without the prior approval of the Nodal Agency.
- 15.3.2 However, in the case of default by the TSP in debt repayments or in the case of default by the TSP as per Article 13 of this Agreement during the debt repayments, the Commission may, on an application from the Lenders, assign the Transmission License to the nominee of the Lenders subject to the fulfilment of the qualification requirements and provisions of the Central Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 and as amended from time to time.



## Transmission Service Agreement

**ARTICLE: 16****16. GOVERNING LAW AND DISPUTE RESOLUTION****16.1 Governing Law:**

This Agreement shall be governed by and construed in accordance with the Laws of India. Any legal proceedings in respect of any matters, claims or disputes under this Agreement shall be under the jurisdiction of appropriate courts in Delhi.

**16.2 Amicable Settlement:**

16.2.1 Either Party is entitled to raise any claim, dispute or difference of whatever nature arising under, out of or in connection with this Agreement, including its existence or validity or termination or whether during the execution of the Project or after its completion and whether prior to or after the abandonment of the Project or termination or breach of the Agreement by giving a written notice to the other Party, which shall contain:

- (i) a description of the Dispute;
- (ii) the grounds for such Dispute; and
- (iii) all written material in support of its claim.

16.2.2 The other Party shall, within thirty (30) days of issue of notice issued under Article 16.2.1, furnish:

- (i) counter-claim and defences, if any, regarding the Dispute; and
- (ii) all written material in support of its defences and counter-claim.

16.2.3 Within thirty (30) days of issue of notice by the Party pursuant to Article 16.2.1, if the other Party does not furnish any counter claim or defense under Article 16.2.2, or thirty (30) days from the date of furnishing counter claims or defence by the other Party, both the Parties to the Dispute shall meet to settle such Dispute amicably. If the Parties fail to resolve the Dispute amicably within thirty (30) days from the later of the dates mentioned in this Article 16.2.3, the Dispute shall be referred for dispute resolution in accordance with Article 16.3.

**16.3 Dispute Resolution:**

All Disputes shall be adjudicated by the Commission.

Central Transmission Utility of India Limited

60

PUNE - III TRANSMISSION LIMITED



## Transmission Service Agreement

**16.4 Parties to Perform Obligations:**

Notwithstanding the existence of any Dispute and difference referred to the Commission as provided in Article 16.3 and save as the Commission may otherwise direct by a final or interim order, the Parties hereto shall continue to perform their respective obligations/ roles (which are not in dispute) under this Agreement.

Central Transmission Utility of India Limited



61

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

## ARTICLE: 17

## 17. REPRESENTATION AND WARRANTIES

## 17.1 Representation and warranties of the Nodal Agency

17.1.1 The Nodal Agency hereby represents and warrants to and agrees with the TSP as follows and acknowledges and confirms that the TSP is relying on such representations and warranties in connection with the transactions described in this Agreement:

- a. It has all requisite powers and authority to execute and consummate this Agreement;
- b. This Agreement is enforceable against the Nodal Agency in accordance with its terms;
- c. The consummation of the transactions contemplated by this Agreement on the part of Nodal Agency will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the Nodal Agency is a Party or to which the Nodal Agency is bound, which violation, default or power has not been waived;

## 17.2 Representation and Warranties of the TSP:

17.2.1 The TSP hereby represents and warrants to and agrees with the Nodal Agency as follows and acknowledges and confirms that the Nodal Agency is relying on such representations and warranties in connection with the transactions described in this Agreement:

- a. It has all requisite powers and has been duly authorized to execute and consummate this Agreement;
- b. This Agreement is enforceable against it, in accordance with its terms;
- c. The consummation of the transactions contemplated by this Agreement on the part of the TSP will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the TSP is a Party or to which the TSP is bound which violation, default or power has not been waived;

Central Transmissior Utility of India Limited

62

PUNE- III TRANSMISSION LIMITED





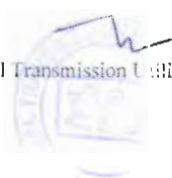
**Transmission Service Agreement**

- d. The TSP is not insolvent and no insolvency proceedings have been instituted, nor threatened or pending by or against the TSP;
  - e. There are no actions, suits, claims, proceedings or investigations pending or, to the best of the TSP's knowledge, threatened in writing against the TSP at law, in equity, or otherwise, and whether civil or criminal in nature, before or by, any court, commission, arbitrator or governmental agency or authority, and there are no outstanding judgments, decrees or orders of any such courts, commission, arbitrator or governmental agencies or authorities, which materially adversely affect its ability to execute the Project or to comply with its obligations under this Agreement.
- 17.2.2 The TSP makes all the representations and warranties above to be valid as on the Effective Date of this Agreement.

Central Transmission Utility of India Limited

63

PUNE - III TRANSMISSION LIMITED



## Transmission Service Agreement

**ARTICLE: 18****18. INDEPENDENT ENGINEER****18.1 Appointment of Independent Engineer**

The Nodal Agency shall appoint an agency/ company as Independent Engineer as per framework provided in the Guidelines for Encouraging Competition in Development of Transmission Projects for selection of Independent Engineer.

**18.2 Roles and functions of Independent Engineer**

The role and functions of the Independent Engineer shall include the following:

- a. Progress Monitoring as required under this Agreement;
- b. Ensuring Quality as required under this Agreement;
- c. determining, as required under the Agreement, the costs of any works or services and/or their reasonableness during construction phase;
- d. determining, as required under the Agreement, the period or any extension thereof, for performing any duty or obligation during construction phase;
- e. determining, as required under the Agreement, the valuation of the Project Assets.
- f. Assisting the Parties in resolution of Disputes and
- g. Undertaking all other duties and functions in accordance with the Agreement.

**18.3 Remuneration of Independent Engineer**

The fee and charges of the Independent Engineer shall be paid by the Nodal Agency as per terms & conditions of appointment.

**18.4 Termination of appointment**

18.4.1 The Nodal Agency may, in its discretion, terminate the appointment of the Independent Engineer at any time, but only after appointment of another Independent Engineer.

18.4.2 If the TSP has reason to believe that the Independent Engineer is not discharging its duties and functions in a fair, efficient and diligent manner, it may make a written representation to the Nodal Agency and seek termination of the appointment of the Independent Engineer. Upon receipt of such representation, the Nodal Agency shall



### Transmission Service Agreement

hold a tripartite meeting with the TSP and Independent Engineer for an amicable resolution, and the decision of Nodal agency is final. In the event that the appointment of the Independent Engineer is terminated hereunder, the Nodal Agency shall appoint forthwith another Independent Engineer.

#### 18.5 Authorised signatories

The Nodal Agency shall require the Independent Engineer to designate and notify to the Nodal Agency up to 2 (two) persons employed in its firm to sign for and on behalf of the Independent Engineer, and any communication or document required to be signed by the Independent Engineer shall be valid and effective only if signed by any of the designated persons; provided that the Independent Engineer may, by notice in writing, substitute any of the designated persons by any of its employees.

Central Transmission Utility of India Limited

65

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

## ARTICLE: 19

## 19. MISCELLANEOUS PROVISIONS

## 19.1 Equity Lock-in Commitment:

19.1.1 The aggregate equity share holding of the Selected Bidder in the issued and paid up equity share capital of **PUNE- III TRANSMISSION LIMITED** shall not be less than Fifty one percent (51%) up to a period of one (1) year after COD of the Project.

Provided that, in case the Lead Member or Bidding Company is holding equity through Affiliate/s, Ultimate Parent Company or Parent Company, such restriction as specified above shall apply to such entities.

Provided further, that in case the Selected Bidder is a Bidding Consortium, the Lead Member shall continue to hold equity of at least twenty six percent (26%) upto a period of one (1) year after COD of the Project and any Member of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified above.

19.1.2 If equity is held by the Affiliates, Parent Company or Ultimate Parent Company of the Selected Bidder, then, subject to the second proviso to Article 19.1.1, such Affiliate, Parent Company or Ultimate Parent Company shall be eligible to transfer its shareholding in **PUNE- III TRANSMISSION LIMITED** to another Affiliate or to the Parent Company / Ultimate Parent Company of the Selected Bidder. If any such shareholding entity, qualifying as an Affiliate / Parent Company / Ultimate Parent Company, is likely to cease to meet the criteria to qualify as an Affiliate / Parent Company / Ultimate Parent Company, the shares held by such entity shall be transferred to another Affiliate / Parent Company / Ultimate Parent Company of the Selected Bidder.

19.1.3 Subject to Article 19.1.1, all transfer(s) of shareholding of **PUNE- III TRANSMISSION LIMITED** by any of the entities referred to in Article 19.1.1 and 19.1.2 above, shall be after prior written intimation to the Nodal Agency.

19.1.4 For computation of effective Equity holding, the Equity holding of the Selected Bidder or its Ultimate Parent Company in such Affiliate(s) or Parent Company and the equity holding of such Affiliate(s) or Ultimate Parent Company in **PUNE- III TRANSMISSION LIMITED** shall be computed in accordance with the example given below:

Central Transmission Utility of India Limited

66

PUNE- III TRANSMISSION LIMITED





### Transmission Service Agreement

If the Parent Company or the Ultimate Parent Company of the Selected Bidder A directly holds thirty percent (30%) of the equity in **PUNE- III TRANSMISSION LIMITED**, then holding of Selected Bidder A in **PUNE- III TRANSMISSION LIMITED** shall be thirty percent (30%);

If Selected Bidder A holds thirty percent (30%) equity of the Affiliate and the Affiliate holds fifty percent (50%) equity in **PUNE- III TRANSMISSION LIMITED**, then, for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A in **PUNE- III TRANSMISSION LIMITED** shall be fifteen percent (15%), (i.e., 30% x 50%)

19.1.5 The provisions as contained in this Article 19.1 shall override the terms of the consortium agreement submitted as part of the Bid.

19.1.6 The TSP shall be responsible to report to Nodal Agency, within thirty (30) days from the occurrence of any event that would result in any change in its equity holding structure from that which existed as on the date of signing of the Share Purchase Agreement. In such cases, the Nodal Agency would reserve the right to ascertain the equity holding structure and to call for all such required documents / information / clarifications as may be required.

### 19.2 Commitment of maintaining Qualification Requirement

19.2.1 The Selected Bidder will be required to continue to maintain compliance with the Qualification Requirements, as stipulated in RFP Document, till the COD of the Project. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the COD of the Project.

19.2.2 Failure to comply with the aforesaid provisions shall be dealt in the same manner as TSP's Event of Default as under Article 13 of this Agreement.

### 19.3 Language:

19.3.1 All agreements, correspondence and communications between the Parties relating to this Agreement and all other documentation to be prepared and supplied under the Agreement shall be written in English, and the Agreement shall be construed and interpreted in accordance with English language.

19.3.2 If any of the agreements, correspondence, communications or documents are prepared in any language other than English, the English translation of such agreements, correspondence, communications or documents shall prevail in

Central Transmission Utility of India Limited

67

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

matters of interpretation.

#### 19.4 Affirmation

The TSP and the Nodal Agency, each affirm that:

1. neither it nor its respective directors, employees, or agents has paid or undertaken to pay or shall in the future pay any unlawful commission, bribe, pay-off or kick-back; and
2. it has not in any other manner paid any sums, whether in Indian currency or foreign currency and whether in India or abroad to the other Party to procure this Agreement, and the TSP and the Nodal Agency hereby undertake not to engage in any similar acts during the Term of Agreement.

#### 19.5 Severability

The invalidity or enforceability, for any reason, of any part of this Agreement shall not prejudice or affect the validity or enforceability of the remainder of this Agreement, unless the part held invalid or unenforceable is fundamental to this Agreement.

#### 19.6 Counterparts

This Agreement may be executed in one or more counterparts, each of which shall be deemed an original and all of which collectively shall be deemed one and the same Agreement.

#### 19.7 Breach of Obligations/ Roles

The Parties acknowledge that a breach of any of the obligations/ roles contained herein would result in injuries. The Parties further acknowledge that the amount of the liquidated damages or the method of calculating the liquidated damages specified in this Agreement is a genuine and reasonable pre-estimate of the damages that may be suffered by the non-defaulting Party in each case specified under this Agreement

#### 19.8 Restriction of Shareholders / Owners Liability

19.8.1 Parties expressly agree and acknowledge that none of the shareholders of the Parties hereto shall be liable to the other Parties for any of the contractual obligations of the concerned Party under this Agreement.

19.8.2 Further, the financial liabilities of the shareholder(s) of each Party to this Agreement shall be restricted to the extent provided in the Indian Companies Act, 1956 / Companies Act, 2013 (as the case may be).

Central Transmission Utility of India Limited

68

PUNE- III TRANSMISSION LIMITED



### Transmission Service Agreement

#### 19.9 Taxes and Duties:

- 19.9.1 The TSP shall bear and promptly pay all statutory taxes, duties, levies and cess, assessed/levied on the TSP, its Contractors or their employees that are required to be paid by the TSP as per the Law in relation to the execution of the Project and for providing Transmission Service as per the terms of this Agreement.
- 19.9.2 The Nodal Agency shall be indemnified and held harmless by the TSP against any claims that may be made against the Nodal Agency in relation to the matters set out in Article 19.9.1.
- 19.9.3 The Nodal Agency shall not be liable for any payment of, taxes, duties, levies, cess whatsoever for discharging any obligation of the TSP by the Nodal Agency on behalf of TSP or its personnel, provided the TSP has consented in writing to the Nodal Agency for such work, for which consent shall not be unreasonably withheld.

#### 19.10 No Consequential or Indirect Losses

The liability of the TSP shall be limited to that explicitly provided in this Agreement.

Provided that, notwithstanding anything contained in this Agreement, under no event shall the Nodal Agency or the TSP claim from one another any indirect or consequential losses or damages.

#### 19.11 Discretion:

Except where this Agreement expressly requires a Party to act fairly or reasonably, a Party may exercise any discretion given to it under this Agreement in any way it deems fit.

#### 19.12 Confidentiality

- 19.12.1 The Parties undertake to hold in confidence this Agreement and RFP Project Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

- (a) to their professional advisors;
- (b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities; or
- (c) disclosures required under Law,

without the prior written consent of the other Parties.

  
Central Transmission Utility of India Limited

69

  
PUNE-III TRANSMISSION LIMITED

  
Pune Transmission Limited

### Transmission Service Agreement

Provided that, the TSP agrees and acknowledges that the Nodal Agency, may, at any time, disclose the terms and conditions of the Agreement and the RFP Project Documents to any person, to the extent stipulated under the Law and the Competitive Bidding Guidelines.

#### 19.13 Order of priority in application:

Save as provided in Article 2.5, in case of inconsistencies between the terms and conditions stipulated in Transmission License issued by the Commission to the TSP, agreement(s) executed between the Parties, applicable Law including rules and regulations framed thereunder, the order of priority as between them shall be the order in which they are placed below:

- terms and conditions of Transmission License;
- applicable Law, rules and regulations framed thereunder;
- this Agreement;
- Agreement(s), if any, under Sharing Regulations.

#### 19.14 Independent Entity:

19.14.1 The TSP shall be an independent entity performing its obligations pursuant to the Agreement.

19.14.2 Subject to the provisions of the Agreement, the TSP shall be solely responsible for the manner in which its obligations under this Agreement are to be performed. All employees and representatives of the TSP or Contractors engaged by the TSP in connection with the performance of the Agreement shall be under the complete control of the TSP and shall not be deemed to be employees, representatives, Contractors of the Nodal Agency and nothing contained in the Agreement or in any agreement or contract awarded by the TSP shall be construed to create any contractual relationship between any such employees, representatives or Contractors and the Nodal Agency.

#### 19.15 Amendments:

19.15.1 This Agreement may only be amended or supplemented by a written agreement between the Parties.

#### 19.16 Waiver:

19.16.1 No waiver by either Party of any default or breach by the other Party in the performance of any of the provisions of this Agreement shall be effective unless in

Central Transmission Utility of India Limited

70

PUNE - III TRANSMISSION LIMITED





## Transmission Service Agreement

writing duly executed by an authorised representative of such Party.

- 19.16.2 Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement nor time or other indulgence granted by one Party to the other Parties shall act as a waiver of such breach or acceptance of any variation or the relinquishment of any such right or any other right under this Agreement, which shall remain in full force and effect.

**19.17 Relationship of the Parties:**

This Agreement shall not be interpreted or construed to create an association, joint venture, or partnership or agency or any such other relationship between the Parties or to impose any partnership obligation or liability upon either Party and neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

**19.18 Entirety:**

- 19.18.1 This Agreement along with its sections, schedules and appendices is intended by the Parties as the final expression of their agreement and is intended also as a complete and exclusive statement of the terms of their agreement.
- 19.18.2 Except as provided in this Agreement, all prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement or the provision of Transmission Service under this Agreement to the Nodal Agency by the TSP shall stand superseded and abrogated.

**19.19 Notices:**

- 19.19.1 All notices or other communications which are required to be given under this Agreement shall be in writing and in the English language
- 19.19.2 If to the TSP, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the addressee below:

|               |   |                                |
|---------------|---|--------------------------------|
| Address       | : | Adani Energy Solutions Limited |
| Attention     | : | Rahul Mathur                   |
| Email         | : | rahul.mathur@adani.com         |
| Fax. No.      | : |                                |
| Telephone No. | : | 079-25557692                   |

- 19.19.3 If to the Nodal Agency, all notices or communications must be delivered personally



Central Transmission Utility of India Limited

71

PUNE - III TRANSMISSION LIMITED



## Transmission Service Agreement

or by registered post or facsimile or any other mode duly acknowledged to the addresses below:

## (i) Central Transmission Utility of India Limited (Nodal Agency)

Address : 5th to 10th Floor, IRCON International Tower, Tower  
no-1, Plot no -16 , Sector-32, Gurugram, Haryana :122003

Attention : Mr. Atul Kumar Agarwal

Email : atul\_ag@powergrid.in

Fax. No. :

Telephone No.: 9910378059

19.19.4 All notices or communications given by facsimile shall be confirmed by sending a copy of the same via post office in an envelope properly addressed to the appropriate Party for delivery by registered mail. All notices shall be deemed validly delivered upon receipt evidenced by an acknowledgement of the recipient, unless the Party delivering the notice can prove in case of delivery through the registered post that the recipient refused to acknowledge the receipt of the notice despite efforts of the postal authorities.

19.19.5 Any Party may by notice of at least fifteen (15) days to the other Party change the address and/or addresses to which such notices and communications to it are to be delivered or mailed.

**19.20 Fraudulent and Corrupt Practices**

19.20.1 The TSP and its respective officers, employees, agents and advisers shall observe the highest standard of ethics during the subsistence of this Agreement. Notwithstanding anything to the contrary contained in the Agreement, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP, if it determines that the TSP has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bid process. In such an event, the Nodal Agency shall forfeit the Contract Performance Guarantee of the TSP, without prejudice to any other right or remedy that may be available to the Nodal Agency hereunder or subsistence otherwise.

19.20.2 Without prejudice to the rights of the Nodal Agency under Clause 19.20.1 hereinabove and the rights and remedies which the Nodal Agency may have under this Agreement, if a TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bid

Central Transmission Utility of India Limited

72

PUNE - III TRANSMISSION LIMITED



## Transmission Service Agreement

process, or after the issue of Letter of Intent (hereinafter referred to as Lol) or after the execution of the agreement(s) required under Sharing Regulations, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP. Further, the TSP & its Affiliates shall not be eligible to participate in any tender or RFP issued by any BPC for an indefinite period from the date such TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

**19.20.3** For the purposes of this Clause 19.20, the following terms shall have the meaning hereinafter respectively assigned to them:

(a) **“corrupt practice”** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bid process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BPC who is or has been associated or dealt in any manner, directly or indirectly with the Bid process or the Lol or has dealt with matters concerning the RFP Project Documents or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the BPC, shall be deemed to constitute influencing the actions of a person connected with the Bid Process); or (ii) engaging in any manner whatsoever, whether during the Bid Process or after the issue of the Lol or after the execution of the RFP Project Documents, as the case may be, any person in respect of any matter relating to the Project or the Lol or the RFP Project Documents, who at any time has been or is a legal, financial or technical adviser of the BPC in relation to any matter concerning the Project;

(b) **“fraudulent practice”** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bid process;

(c) **“coercive practice”** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bid process;

(d) **“undesirable practice”** means (i) establishing contact with any person connected with or employed or engaged by the BPC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bid process; or (ii) having a Conflict of Interest; and



#### Transmission Service Agreement

(e) “**restrictive practice**” means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bid process;

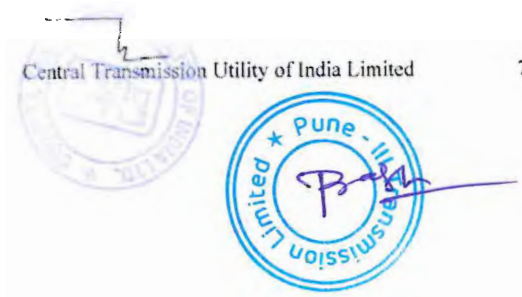
#### 19.21 Compliance with Law:

Despite anything contained in this Agreement but without prejudice to Article 12, if any provision of this Agreement shall be in deviation or inconsistent with or repugnant to the provisions contained in the Electricity Act, 2003, or any rules and regulations made there under, such provision shall be deemed to be amended to the extent required to bring it into compliance with the aforesaid relevant provisions as amended from time to time.

Central Transmission Utility of India Limited

74

PUNE- III TRANSMISSION LIMITED





## Transmission Service Agreement

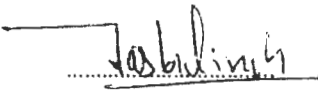
IN WITNESS WHEREOF, THE PARTIES HAVE CAUSED THIS AGREEMENT TO BE EXECUTED BY THEIR DULY AUTHORISED REPRESENTATIVES AS OF THE DATE AND PLACE SET FORTH ABOVE.

1. For and on behalf of TSP

  
 ..... SANTAY ARVIND JOHARI  
 CHIEF BUSINESS DEVELOPMENT OFFICER  
 [Signature, Name, Designation and Address]

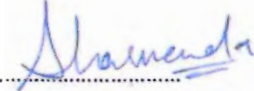


2. For and on behalf of Central Transmission Utility of India Limited (Nodal Agency)

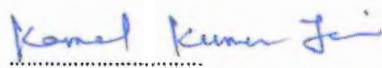
  
 ..... JASBIR SINGH  
 Executive Director  
 CENTRAL TRANSMISSION UTILITY OF INDIA LTD.  
 (A Wholly Owned Subsidiary of  
 Power Grid Corporation of India Ltd)  
 (A Government of India Enterprises)  
 Plot No.-2, Sector-29, Gurgaon- 122 001 (Haryana)  
 [Signature, Name, Designation and Address]

## WITNESSES:

1. For and on behalf of  
 : BPC

  
 ..... Dharmender Ar  
 [Signature]  
 [Insert, Name, Designation and Address of the Witness]

2. For and on behalf of  
 : Nodal Agency

  
 ..... Kamal Kumar Jain  
 [Signature]

.....  
 [Insert Name, Designation and Address of the Witness]

Central Transmission Utility of India Limited

75

PUNE-III TRANSMISSION LIMITED



Transmission Service Agreement

# SCHEDULES

Central Transmission Utility of India Limited

76

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

## Schedule: 1

## Project Description and Scope of Project

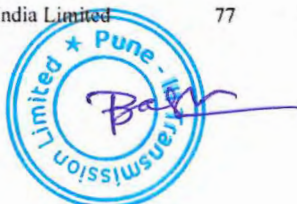
## A. Description of the Transmission Scheme

Govt. of India has set a target for establishing 500 GW capacity from non-fossil energy sources by 2030. In this direction, in December 2020, Hon'ble Prime Minister laid the foundation stone of the world's largest renewable energy park in Gujarat's Kutch. This 30 GW capacity hybrid renewable energy park is being built along the Indo-Pak border at Khavda using both wind and solar energy and is expected to play a major role in fulfilling India's vision of 500 GW of non-fossil generation capacity by 2030.

Out of 30GW, 15GW RE capacity is expected to come up by 2024-25 and balance by 2026-27 timeframe. Transmission system for evacuation of up to 15GW power from Khavda RE Park is already under implementation/bidding in 3 phases as per details below:

| Phase | RE Capacity (GW) | Status of Transmission System                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I     | 3                | <u>Under Implementation:</u> <ul style="list-style-type: none"> <li>KPS1 S/s and KPS1 – Bhuj 765kV D/c line: Awarded to Adani Transmission Ltd. with SCOD of Jan'24.</li> <li>KPS2 S/s: Awarded to POWERGRID with SCOD of Dec'24.</li> <li>KPS1 – KPS2 -765kV D/c line: Awarded to Megha Engg with SCOD of Jan'25.</li> </ul>                                                                                                                                     |
| II    | 5                | <u>Under Implementation:</u> <ul style="list-style-type: none"> <li>KPS3 S/s &amp; KPS3 – KPS2 765kV D/c line: Awarded to POWERGRID with SCOD of Dec'24.</li> <li>Khavda Ph-II Part A - Awarded to Adani Transmission Ltd. with Expected SCOD of March'25.</li> <li>Khavda Ph-II Parts B &amp; C – Awarded to POWERGRID with Expected SCOD of March'25.</li> <li>Khavda Ph-II Part D: Awarded to Torrent Power Limited with Expected SCOD of March'25.</li> </ul> |
| III   | 7                | <u>Under Bidding:</u> <ul style="list-style-type: none"> <li>Agreed in 11th NCT – MoP Gazette issued in Apr'23 and expected SCOD is Aug'25.</li> </ul>                                                                                                                                                                                                                                                                                                            |

The Phase-IV (Part A to E) transmission scheme has been planned to enable evacuation



## Transmission Service Agreement

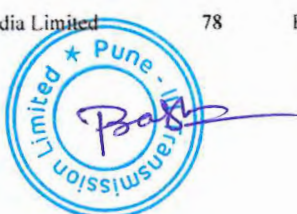
of additional 7 GW (beyond 15GW) RE power from Khavda RE park.

The subject scheme (under Part D) includes establishment of a new 2x1500 MVA, 765/400 kV & 3x500 MVA, 400/220 kV Pune-III (GIS) S/s along with LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III, Boisar-II – Pune-III 765 kV D/c line & LILO of Hinjewadi-Koyna 400 kV S/c line at Pune-III (GIS) S/s. The transmission scheme alongwith other Ph-IV schemes will facilitate integration of additional 7 GW REZ in Khavda area (beyond 15 GW) under Ph-IV.

The subject Transmission system was deliberated and approved in the 14<sup>th</sup> NCT meeting held on 09.06.2023. The Ministry of Power vide Gazette notification no CG-DL-E-06092023-248580 dated September 04, 2023 has appointed PFCC as BPC for implementation of the subject transmission scheme through TBCB route.

### B. Detailed Scope of Work

| Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part D |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| S. No.                                                                                                                                   | Name of Transmission Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Scheduled COD in months from Effective Date |
| 1.                                                                                                                                       | <p>Establishment of 2x1500 MVA, 765/400 kV &amp; 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor.</p> <ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICT-2 Nos. (7x500 MVA including one spare unit)</li> <li>• 400/220 kV, 500 MVA ICT – 3 Nos.</li> <li>• 765 kV ICT bays- 2 Nos.</li> <li>• 400 kV ICT bays- 5 Nos.</li> <li>• 220 kV ICT bays- 3 Nos.</li> <li>• 220 kV BC bay – 1 No.</li> <li>• 330 MVAR, 765 kV bus reactor-2 Nos.</li> <li>• 125 MVAR, 420 kV bus reactor-2 Nos.</li> <li>• 765 kV reactor bay- 2 Nos.</li> <li>• 765 kV line bay- 6 Nos.</li> <li>• 400 kV reactor bay- 2 Nos.</li> <li>• 400 kV line bay- 2 Nos.</li> <li>• 110 MVAR, 765 kV, 1-ph reactor (spare unit for line/bus reactor)-1 No.</li> </ul> <p><b>Future Provisions: Space for</b></p> <ul style="list-style-type: none"> <li>• 765/400 kV ICT along with bays- 4 No.</li> <li>• 765 kV line bays along with switchable line reactors – 8 Nos.</li> </ul> | 24 Months<br>(19/11/2026)                   |





## Transmission Service Agreement

| Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part D |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| S. No.                                                                                                                                   | Name of Transmission Element                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Scheduled COD in months from Effective Date |
|                                                                                                                                          | <ul style="list-style-type: none"> <li>765 kV Bus Reactor along with bay: 2 No.</li> <li>765 kV Sectionalizer bay: 1 -set</li> <li>400 kV line bays along with switchable line reactor – 12 Nos.</li> <li>400/220 kV ICT along with bays -5 Nos.</li> <li>400 kV Bus Reactor along with bay: 2 No.</li> <li>400 kV Sectionalization bay: 1 set</li> <li>220 kV line bays: 12 Nos.</li> <li>220 kV Sectionalization bay: 1 set</li> <li>220 kV BC: 1 No.</li> <li>STATCOM (<math>\pm 300</math> MVAR) along with MSC (3x125 MVAR) &amp; MSR (1x125 MVAR): alongwith 1 No. 400 kV bay: 1 No.</li> <li>80 MVAR, 765 kV, 1-ph reactor (spare unit for line reactor)-1 No.</li> </ul> |                                             |
| 2.                                                                                                                                       | Boisar-II – Pune-III 765 kV D/c line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |
| 3.                                                                                                                                       | 330 MVAR switchable line reactors at Pune-III end of Boisar-II – Pune-III 765 kV D/c line (with NGR bypass arrangement). <ul style="list-style-type: none"> <li>330 MVAR, 765 kV switchable line reactor- 2 Nos.</li> <li>Switching equipment for 765 kV line reactor- 2 Nos.</li> <li>1x110 MVAR spare bus reactor being established under present scheme at Pune-III (GIS) to be used as spare</li> </ul>                                                                                                                                                                                                                                                                      |                                             |
| 4.                                                                                                                                       | 2 Nos. of 765 kV line bays at Boisar-II for termination of Boisar-II – Pune-III 765 kV D/c line <ul style="list-style-type: none"> <li>765 kV line bays (GIS) – 2 Nos. (for Boisar-II end)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                             |
| 5.                                                                                                                                       | LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                             |
| 6.                                                                                                                                       | 330 MVAR switchable line reactors at Pune-III end of Narendra (New) – Pune-III(GIS) 765 kV D/c line (with NGR bypass arrangement). <ul style="list-style-type: none"> <li>330 MVAR, 765 kV switchable line reactor- 2.</li> <li>Switching equipment for 765 kV line reactor- 2</li> <li>1x110 MVAR spare bus reactor (1-ph) being implemented at Pune-III (GIS) S/s under present scheme shall be used as spare</li> </ul>                                                                                                                                                                                                                                                       |                                             |

Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED

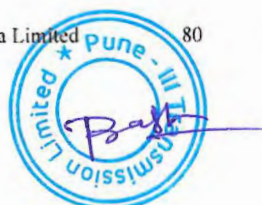


## Transmission Service Agreement

| Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part D |                                                                                                                                                                                                                                               |                                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| S. No.                                                                                                                                   | Name of Transmission Element                                                                                                                                                                                                                  | Scheduled COD in months from Effective Date |
| 7.                                                                                                                                       | LILO of Hinjewadi-Koyna 400 kV S/c line at Pune-III (GIS) S/s                                                                                                                                                                                 |                                             |
| 8.                                                                                                                                       | 80 MVAR, 420 kV switchable Line Reactor at Pune-III (GIS) end of Pune-III (GIS) – Koyna 400 kV line formed after above LILO (with NGR bypass arrangement).<br>• 80 MVAR, 420 kV switchable line reactor along with switching equipment- 1 No. |                                             |

## Note:

- i) Bay(s) required for completion of diameter (GIS) in one-and-half breaker scheme, shall also be executed by the TSP.
- ii) Logic for Inter-tripping scheme for tripping of the 330 MVAR switchable line reactor along with main line breaker at Pune (GIS) end of Pune (GIS) – Narendra (New) 765 kV D/c line shall be implemented by the owner of the line after LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III
- iii) MSETCL shall implement the following 220 kV lines along with 5 Nos. 220 kV GIS bays at Pune-III (GIS) S/s in matching time-frame of Pune-III S/s:
  - a) LILO of both circuits of Jejuri-Phursungi 220 kV D/c line at Pune-III S/s with HTLS conductor (twin zebra equivalent) along with reconductoring of balance line section viz. LILO point to Phursungi and LILO points to Jejuri with HTLS conductor (twin zebra equivalent)
  - b) Nanded City - Pune PG III 220 kV S/c line with HTLS conductor (twin zebra equivalent)
- iv) TSP of Boisar-II S/s shall provide space for work envisaged at Sl. No. 4.
- v) The line lengths mentioned above are approximate as the exact length shall be obtained after the detailed survey.



## Transmission Service Agreement

**SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE**

The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations and MoP guidelines, as applicable, shall also be followed.

- A.1.0 Selection of tower type shall be made as per CEA Regulations, however in case lattice type towers are used, the following shall also be applicable:
- A.2.0 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.
- A.3.0 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

| Solidity Ratio | Drag Coefficient |
|----------------|------------------|
| Upto 0.05      | 3.6              |
| 0.1            | 3.4              |
| 0.2            | 2.9              |
| 0.3            | 2.5              |
| 0.4            | 2.2              |
| 0.5 and above  | 2.0              |

- A.4.0 Transmission Service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.
- A.5.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of high intensity winds (HIW) due to thunderstorms, dust-storms, downburst etc. along the line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line. Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for design of towers located in such sections.
- A.6.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.
- A.7.0 A) For power line crossing of 400 kV or above voltage level, large angle & dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.
- B) For power line crossing of 132 kV and 220 kV voltage level, angle towers (B/C/D/DB/DC/DD/ QB/QC/QD) shall be used on either side of power line crossing



## Transmission Service Agreement

depending upon the merit of the prevailing site condition and line deviation requirement.

C) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.

D) For crossing of railway tracks, national highways and state highways, the rules/regulations of appropriate authorities shall be followed.

A.8.0 The relevant conductor configuration for 765kV shall be as follows: -

| Transmission line                         | ACSR Conductor specified                                                                                                                                                                                | Equivalent AAAC conductor based on 53.5% conductivity of Al Alloy                                                                                                                    | Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*                                                                                                | Sub-conductor Spacing |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 765kV D/C (Hexa Zebra) transmission lines | Zebra :<br>Stranding<br>54/3.18 mm-Al<br>+ 7/3.18 mm-Steel, 428 sq mm, Aluminium area,<br><br>28.62 mm diameter<br><br>Maximum DC Resistance at 20°C ( $\Omega$ /km): 0.06868<br>Minimum UTS: 130.32 kN | Stranding details:<br>61/3.19mm,<br><br>487.5 sq.mm Aluminium alloy area<br>28.71 mm diameter<br><br>Maximum DC Resistance at 20°C ( $\Omega$ /km): 0.06815<br>Minimum UTS: 135.6 kN | Stranding details:<br>61/3.08mm,<br><br>454 sq.mm Aluminium alloy area<br>27.72 mm diameter<br><br>Maximum DC Resistance at 20°C ( $\Omega$ /km): 0.0653<br>Minimum UTS: 108 kN | 457 mm                |

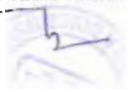
**Note:**

1. \*To Select any size above the minimum, the sizes mentioned in the Indian standard IS-398(part-6) shall be followed.
2. The transmission lines shall have to be designed for a maximum operating

Central Transmission Utility of India Limited

82

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

conductor temperature of 85 deg C.

The relevant conductor configuration for 400kV shall be as follows: -

| Transmission line                         | ACSR Conductor specified                                                                                                                                                                                      | Equivalent AAAC conductor based on 53% conductivity of Al Alloy                                                                                                                    | Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*                                                                                                   | Sub-conductor Spacing |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 400kV D/C (Twin Moose) transmission lines | <b>Moose:</b><br><b>Stranding</b><br>54/3.53mm-Al + 7/3.53 mm-Steel,<br>31.77 mm diameter<br>528.5 sq. mm, Aluminium area,<br><br>Maximum DC Resistance at 20°C (Ω/km): 0.05552<br><br>Minimum UTS: 161.20 kN | <b>Stranding details:</b><br>61/3.55mm 31.95mm diameter;<br><br>604 sq. mm Aluminium alloy area<br><br>Maximum DC Resistance at 20°C (Ω/km): 0.05506<br><br>Minimum UTS: 159.80 kN | <b>Stranding details:</b><br>61/3.31mm 29.79 mm diameter;<br><br>525 sq. mm Aluminium alloy area<br><br>Maximum DC Resistance at 20°C (Ω/km): 0.0566<br><br>Minimum UTS: 124.70 kN | 450 mm                |

**Note:**

- \*To Select any size above the minimum, the sizes mentioned in the Indian standard IS-398(part-6) shall be followed.
- The transmission lines shall have to be designed for a maximum operating conductor temperature of 85 deg C.

A.9.0 The required phase to phase spacing and horizontal spacing for 765kV & 400kV line shall be governed by the tower design as well as minimum live metal clearances for 765kV & 400kV voltage level under different insulator swing angles. However, the phase to phase spacing for 765kV line shall not be less than 15 m & for 400kV line shall not be less than 8 m.

A.10.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:





## Transmission Service Agreement

**Minimum live metal clearances for 765 kV line:**(i) Under stationary conditions

From tower body: For 765 kV D/C: 6.1 m

For 765 kV S/C: 5.6 m

(ii) Under swing conditions

| Wind pressure Condition | Minimum electrical clearance |
|-------------------------|------------------------------|
| a) Swing angle (25°)    | 4.4 m                        |
| b) Swing angle (55°)    | 1.3 m                        |

(iii) Minimum ground clearance: 18 m

(iv) Minimum mid span separation between earth-wire and conductor: 9.0 m

**Minimum live metal clearances for 400 kV line:**(i) Under stationary conditions

From tower body: 3.05 m

(ii) Under swing conditions

| Wind pressure Condition | Minimum electrical clearance |
|-------------------------|------------------------------|
| a) Swing angle (22°)    | 3.05 m                       |
| b) Swing angle (44°)    | 1.86 m                       |

(iii) Minimum ground clearance: 8.84 m

(iv) Minimum mid span separation between earth-wire and conductor: 9.0 m

A.11.0 Shielding angle shall not exceed 10 deg for 765 kV D/C Line transmission line & 20 deg for 400 kV D/C Line transmission line.

A.12.0 The Fault current for design of line shall be 50 kA for 1 sec for 765 kV & 63 kA for 1 sec for 400 kV.

A.13.0 In case of 400 kV & above voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of galvanized stranded steel (GSS) or AACSR or any other suitable conductor type depending upon span length and other technical consideration.



## Transmission Service Agreement

- A.14.0 Each tower shall be earthed such that tower footing impedance does not exceed 10 ohms. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 kms distance for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.
- A.15.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flood discharge of the river, maximum velocity of water, highest flood level, scour depth & anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.
- A.16.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitat zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the line.
- A.17.0 Wherever, transmission lines are passing through cyclone prone areas i.e. areas upto 60 km from the coast following shall also be applicable:
- Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction which also includes open sea coasts, open stretch of water, desert and flat treeless plains
  - Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.
  - The number of consecutive spans between the section points/ angle point shall not exceed 10 spans or 3 km instead of conventional practice of 15 spans or 5 km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.
- A.18.0 Wherever, transmission lines are passing through cyclone prone areas (i.e. areas upto 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:
- The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m<sup>2</sup> of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/m<sup>2</sup> of surface area. The average zinc coating for all sections and plates of 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 microns.
  - Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. Minimum cement content in any case shall not be less than 330



## Transmission Service Agreement

kg/m<sup>3</sup>.

- c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m<sup>2</sup> per coat shall be applied on all exposed faces of foundation (i.e. pedestal & base slab).
- d) Double coat of 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.
- e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 microns dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL portion.

- A.19.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field & undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above HFL (High Flood Level) or the historical water stagnation/ logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).
- A.20.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line upto 400 kV level which are installed in protected areas shall be designed for Multi-circuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State transmission utilities/Central transmission utilities passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU & BPC by the TSP.
- A.21.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.

Central Transmission Utility of India Limited

86

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

**SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION**

The proposed Pune-III substation & extension of Boisar-II substation shall be Gas Insulated Switchgear (GIS) type generally conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations and MoP guidelines, as applicable, shall also be followed.

**B.1.0 Salient features of Substation Equipment and Facilities**

The design and specification of substation equipment are to be governed by the following factors:

**B.1.1 Insulation Coordination**

The system design parameters for substations/switchyards shall be as given below:

| Sl. No. | Description of parameters                                               | 765/400/220kV Pune-III (GIS) S/s |                               |                               | 765kV Boisar-II (GIS) Extn.    |
|---------|-------------------------------------------------------------------------|----------------------------------|-------------------------------|-------------------------------|--------------------------------|
|         |                                                                         | 765 kV System                    | 400 kV System                 | 220 kV System                 | 765 kV System                  |
| 1.      | System operating voltage                                                | 765kV                            | 400kV                         | 220kV                         | 765kV                          |
| 2.      | Maximum voltage of the system (rms)                                     | 800kV                            | 420kV                         | 245kV                         | 800kV                          |
| 3.      | Rated frequency                                                         | 50Hz                             | 50Hz                          | 50Hz                          | 50Hz                           |
| 4.      | No. of phases                                                           | 3                                | 3                             | 3                             | 3                              |
| 5.      | Rated Insulation levels                                                 |                                  |                               |                               |                                |
| i)      | Impulse withstand voltage for (1.2/50 micro sec.)                       |                                  |                               |                               |                                |
|         | - for Equipment other than Transformer and reactor                      | 2100kVp                          | 1425kVp                       | 1050kVp                       | 2100kVp                        |
|         | - for Insulator String                                                  | 2100kVp                          | 1550kVp                       | 1050kVp                       | 2100kVp                        |
| ii)     | Switching impulse withstand voltage (250/2500 micro sec.) dry and wet   | 1425kVp                          | 1050kVp                       | -                             | 1425kVp                        |
| iii)    | One minute power frequency dry withstand voltage (rms)                  | 960kV                            | 650kV                         | 460                           | 960kV                          |
| 6.      | Corona extinction voltage                                               | 508 kV                           | 320kV                         | -                             | 508 kV                         |
| 7.      | Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz | 2500 micro-volts at 508 kV rms   | 1000 micro-volts at 266kV rms | 1000 micro-volts at 156kV rms | 2500 micro-volts at 508 kV rms |



## Transmission Service Agreement

| Sl. No | Description of parameters                                                            | 765/400/220kV Pune-III (GIS) S/s |                    |                   | 765kV Boisar-II (GIS) Extn. |
|--------|--------------------------------------------------------------------------------------|----------------------------------|--------------------|-------------------|-----------------------------|
|        |                                                                                      | 765 kV System                    | 400 kV System      | 220 kV System     | 765 kV System               |
| 8.     | Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings | 24800 mm (31mm/kV)               | 13020 mm (31mm/kV) | 7595 mm (31mm/kV) | 24800 mm (31mm/kV)          |
| 9.     | Minimum creepage distance for switchyard equipment                                   | 20000 mm (25mm/kV)               | 10500 mm (25mm/kV) | 6125 mm (25mm/kV) | <b>24800 mm (31mm/kV)</b>   |
| 10.    | Max. fault current                                                                   | 50 kA                            | 63 kA              | 50 kA             | 50 kA                       |
| 11.    | Duration of fault                                                                    | 1 sec                            | 1 Sec              | 1 Sec             | 1 Sec                       |

**B.1.2 Switching Scheme**

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

| Substation                       | 765kV side         | 400kV side         | 220kV side  |
|----------------------------------|--------------------|--------------------|-------------|
| 765/400/220kV Pune-III S/s (GIS) | One & half breaker | One & half breaker | Double Main |
| 765kV Boisar-II Extn. (GIS)      | One & half breaker | N/A                | N/A         |

Notes: -

- For one and half breaker switching scheme, any double circuit line consisting of two numbers of feeders and originating from the same transmission or generating switchyard shall not be terminated in one diameter.
- Two transformers of same HV rating shall not be connected in the same diameter and similarly two bus reactors of same HV rating shall also not be connected in the same diameter.
- A diameter in one and half breaker scheme is a set of 3 circuit breakers with associated isolators, earth switches, current transformers etc. for controlling of 2 numbers of feeders.
- In case of GIS substation where the bus scheme is One & Half breaker scheme, the diameters shall be complete with feeder/line side isolator to be used for any future line with switchable line reactor bay and GIS duct of the future bay shall be brought outside the GIS hall/building with extension/interface module suitably.
- Connection arrangement of Switchable Line reactors shall be such that it can be used as Line reactor as well as Bus reactor with suitable NGR bypass arrangement. Further, Spare 1-phase Shunt Reactor unit shall be placed and connected in such a way that the spare unit can be utilized for all the bus and switchable line reactor banks





## Transmission Service Agreement

(including future reactor banks) without its physical movement.

- vi) One (1) set of bus sectionalizer for 765kV & 400 kV shall comprise 2 nos. of bus sectionalizer bays with associated Circuit Breakers, Isolators and Current Transformers for both buses.

One (1) set of bus sectionalizer for 220 kV shall comprise 2 nos. of bus sectionalizer bays with associated Circuit Breakers, Isolators and Current Transformers for both buses.

- vii) TSP shall plan distribution of line and transformer feeders to bus bar in such a way that all power can be evacuated successfully without crossing thermal limit at any point of bus-bar.

- viii) **Pune-III s/s:** Provision of 765kV Bus Sectionalization (Future) and space provision shall be with the following feeder distribution.

| 765kV Bus Section-1                    | 765kV Bus Section-2 (Future)          |
|----------------------------------------|---------------------------------------|
| a) 6 nos. of present 765kV Line        | a) 6 nos. of future 765kV Line        |
| b) 2 nos. of present 765/400kV ICT     | b) 3 nos. of future 765/400kV ICT     |
| c) 2 nos. of present 765kV Bus Reactor | c) 2 nos. of future 765kV Bus Reactor |
| d) 2 nos. of 765kV future lines        |                                       |
| e) 1 no. of future 765/400kV ICT       |                                       |

Provision of 400kV Bus Sectionalization (Future) and space provision shall be with the following feeder distribution.

| 400kV Bus Section-1                | 400kV Bus Section-2 (Future)          |
|------------------------------------|---------------------------------------|
| a) 2 nos. of present 400kV Line    | a) 6 nos. of future 400kV Line        |
| b) 2 nos. of present 765/400kV ICT | b) 3 nos. of future 765/400kV ICT     |
| c) 3 nos. of present 400/220kV ICT | c) 4 nos. of future 400/220kV ICT     |
| d) 1 no. of future 400/220kV ICT   | d) 2 nos. of future 400kV Bus Reactor |
| e) 2 no. of present Bus Reactor    |                                       |
| f) 1 no. of future 765/400kV ICT   | e) 1 no. future STATCOM               |
| g) 6 nos. of 400kV future lines    |                                       |

Provision of 220kV Bus Sectionalization (Future) and space provision shall be with the following feeder distribution.

| 220kV Bus Section-1                | 220kV Bus Section-2 (Future)      |
|------------------------------------|-----------------------------------|
| a) 3 nos. of present 400/220kV ICT | a) 4 nos. of future 400/220kV ICT |
| b) 1 no. of future 400/220kV ICT   | b) 6 nos. of future 220kV Line    |



## Transmission Service Agreement

| 220kV Bus Section-1            | 220kV Bus Section-2 (Future) |
|--------------------------------|------------------------------|
| c) 6 nos. of future 220kV Line |                              |

- ix) **765kV Boisar-II GIS Extn:** For Pune-III (GIS)- Boisar-II (GIS) 765kV D/C line, 2 nos. new diameters shall be constructed, and the bay configuration shall be Pune -III (GIS) Line -Tie- Line (provision with Switchable Line Reactor) for termination of future line.
- x) Space provision for 765kV & 400kV Present as well as Future lines shall be kept considering switchable Line reactor for the lines.

**B.2.0 Substation Equipment and facilities (Voltage level as applicable):**

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.

| Sl. No | Description of bay   | 765/400/220kV Pune-III (GIS) S/s |       |       | 765kV Boisar-II (GIS) Extn. |
|--------|----------------------|----------------------------------|-------|-------|-----------------------------|
|        |                      | 765kV                            | 400kV | 220kV | 765kV                       |
| 1.     | Bus Bar              | 4000A                            | 4000A | 3000A | 4000A                       |
| 2.     | Line bay             | 3150A                            | 3150A | 1600A | 3150A                       |
| 3.     | ICT bay              | 3150A                            | 3150A | 1600A | N/A                         |
| 4.     | Reactor bay          | 3150A                            | 3150A | N/A   | N/A                         |
| 5.     | Bus Coupler (BC) bay | N/A                              | N/A   | 3000A | N/A                         |

**B.2.1 Power Transformers****B.2.1.1 (765/√3)/(400/√3)/33 kV Single Phase Autotransformer**

500 MVA, 765/√3)/(400/√3)/33 kV, 1-phase Autotransformer shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above)" as amended up to date available on CEA website.

Spare transformer (1-phase) unit shall be placed and connected in such a way that in case of fault in any unit of any of the transformer banks (including for future transformer banks) can be replaced by spare unit without physically moving it.

**B.2.1.2 400/220/33kV, 3-phase Autotransformer**

500 MVA, 400/220/33kV, 3-phase Autotransformer shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above)" as amended up to date available on CEA website.

**B.2.2 Shunt Reactors**

Central Transmission Utility of India Limited

90

PUNE - III TRANSMISSION LIMITED



## Transmission Service Agreement

**B.2.2.1 (765/ $\sqrt{3}$ ) kV Single Phase Shunt Reactor**

110MVAR, 765/ $\sqrt{3}$  kV, 1-Phase Reactor (including arrangement for 3-phase bank formation of 330 MVAR) shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above)" as amended up to date available on CEA website.

Spare 1-phase Shunt Reactor unit shall be placed and connected in such a way that the spare unit can be utilized for all the bus and **switchable** line reactor banks (including for future reactor banks) without its physical movement.

**B.2.2.2 420kV, 3-Phase, Shunt Reactor**

80 MVAR & 125 MVAR, 420 KV, 3-Phase Reactor shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above)" as amended up to date available on CEA website.

**B.2.2.3 Neutral Grounding Reactor and Surge Arrester for 765 kV & 400 kV Line Reactors (as applicable):**

The neutral of the line reactors (wherever provided) shall be grounded through adequately rated Neutral Grounding Reactors (NGR) to facilitate single phase auto-reclosure, provided that the NGR shall be provided with suitable bypass arrangement so that the line reactor can be used as Bus reactor as and when required. The neutral of bus reactor shall be solidly grounded.

NGR shall be oil filled or dry type air core for outdoor application. NGR shall conform to CEA's "Standard specifications and technical parameters of transformers and reactors (66 kV and above)". as amended upto date. Technical parameters of NGR shall be as specified in Annexure-A of above mentioned document.

The surge arresters (rated voltage of arrester in co-ordination with ohmic value of NGR shall be decided by the TSP) shall be provided & physically located between the neutral of shunt reactor (brought out at 145 kV class bushing) and neutral grounding reactor. The surge arresters shall be of Station Medium (SM) class duty gapless Metal oxide (ZnO) type conforming in general to IEC-60099-4. Arresters shall be hermetically sealed units, of self-supporting construction, suitable for mounting on structures.

The Ohmic value of NGR for Line Reactors shall be as follows:

| Sl. No. | Line Name                                                                                                             | NGR value |
|---------|-----------------------------------------------------------------------------------------------------------------------|-----------|
| 1.      | 330 MVAR switchable line reactors on each ckt of Boisar-II(GIS) – Pune-III(GIS) 765 kV D/C line at Pune-III (GIS) end | 500 Ohms  |
| 2.      | 330 MVAR switchable line reactors on each ckt of Narendra (New) – Pune-III(GIS) 765kV D/c line at Pune-III end        | 300 Ohms  |



## Transmission Service Agreement

| Sl. No. | Line Name                                                                                             | NGR value |
|---------|-------------------------------------------------------------------------------------------------------|-----------|
| 3.      | 80MVAR switchable Line Reactors on each ckt of Pune-III(GIS) – Koyana 400kV line at Pune-III(GIS) end | 300 Ohms  |

**B.2.3 765kV, 400kV & 220kV GIS Substation equipment**

GIS (Gas Insulated Switchgear) shall be Indoor type in accordance to IEC: 62271-203. The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All the switchgear such as Circuit Breaker, isolator, earth switch including CT, PT etc shall be GIS type. The Surge Arrestor and Voltage Transformer shall be either GIS or outdoor AIS type.

The GIS assembly shall consist of separate modular compartments e.g. Circuit Breaker compartment, Bus bar compartment filled with SF<sub>6</sub> Gas and separated by gas tight partitions so as to minimize risk to human life, allow ease of maintenance and limit the effects of gas leaks failures and internal arcs etc. These compartments shall be designed to minimize the risk of damage to adjacent sections and protection of personnel in the event of a failure occurring within the compartments. Rupture diaphragms with suitable deflectors shall be provided to prevent uncontrolled bursting pressures developing within the enclosures under worst operating conditions, thus providing controlled pressure relief in the affected compartment. The arrangement of gas sections or compartments shall be such as to facilitate future extension of any make without any drilling, cutting or welding on the existing equipment. To add equipment, it shall not be necessary to move or dislocate the existing switchgear bays. The layout of Gas Insulated Bus Ducts shall be properly planned to optimize the length of bus ducts and for easy accessibility for maintenance. The length of busbars, bus ducts, isolator sections shall be optimized considering effects of fast transient voltage due to isolator operations.

The bus bar modules including auxiliary bus modules (wherever applicable) shall be provided with suitable End Piece (Interface) module **on both sides** with the test link facility for future extension as per provisions of future requirement. The end piece module shall be designed in such a way so that future GIS module may be tested without extending test voltage to existing bus and vice-versa by removing the test link.

TSP shall make available the complete details for the design of interface module such as cross section, enclosure material, enclosure dimensions (inner & outer), Flange diameter (inner & outer), conductor cross-section & connection arrangement, bolt spacing & dimension, rated gas pressure, Gasket detail etc. Further, adequate space for GIS busbar interface module shall be taken into account for future scope.

Each section shall have plug-in or easily removable connection pieces to allow for easy replacement of any component with the minimum disturbance to the remainder of the





### Transmission Service Agreement

equipment. Inspection windows (View Ports) shall be provided for Disconnect Switches and both type of earth switches i.e. Maintenance and fast operating.

Local control cabinets (LCC) shall be provided as per requirement. The alarm & annunciation of GIS equipment shall be wired to SCADA System.

The material and thickness of the enclosures shall be such as to withstand an internal flash over without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF<sub>6</sub> breakdown under arcing condition. This shall be validated with Type Test.

#### Service continuity requirement for GIS:

The GIS equipment with the given bus switching arrangement shall be divided into different gas compartments. During the work such as a fault repair or major maintenance, requiring the dismantling of a gas compartment for which more than one compartments may need to be de-gassed.

TSP shall meet following Service continuity conditions (to the extent possible) with ensuring equipment and operating personnel's safety:

- For One & half breaker bus switching scheme, during a fault in Circuit Breaker compartment, no bus bar and feeder is permitted out of service during maintenance and repair/replacement.
- During a fault in GIS compartment other than Circuit Breaker compartment, maximum one bus bar and/or one feeder is permitted out of service during maintenance and repair/replacement.

#### Ultra High Frequency (UHF) sensors in GIS for PD (Partial Discharge) detection:

Adequate number of UHF sensors shall be provided in the offered GIS alongwith suitable portable type PD measuring instrument for detection of Partial discharge (of 5 pC and above as per IEC 60270). The number and location of these sensors shall be based on laboratory test on typical design of GIS as per recommendations of CIGRE Document No. 654 (Application Guide for sensitivity verification for UHF Partial discharge detection system for GIS).

#### B.2.3.1 Circuit Breakers (GIS)

GIS Circuit breakers shall in general be of C2-M2 class and comply to IEC-62271-100. The rated break time shall not exceed 40 ms (milli second) for 765 kV & 400 kV. The rated break time shall not exceed 60 ms for 220 kV. Circuit breakers shall be suitable for single phase and three phase auto reclosing. Each breaker shall have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The Circuit breakers





## Transmission Service Agreement

controlling 765 kV lines shall be provided with pre-insertion closing resistor of about 450 ohms with 9 ms insertion time or Controlled Switching Device (CSD). The Circuit breakers controlling 400 kV lines wherever required shall be provided with pre-insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. Controlled switching device shall be provided in Circuit Breaker of switchable line reactor bay and in Main & Tie bay circuit breakers of line with non-switchable line reactors, Bus reactors and Transformers of 400kV & above voltage class.

**B.2.3.2 Isolators (GIS)**

The isolators shall comply to IEC 62271-102 in general. Earth switches shall be provided at various locations to facilitate maintenance. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. All isolators and earth switches shall be motor operated type.

Isolator shall be of extended mechanical endurance class-M2 and suitable for Bus Transfer Current Switching duty as per IEC standard. High speed earthing switches shall be provided for grounding purpose at overhead line terminations & cable terminations and shall have fault making capability as specified. Earth switch for line isolator shall be of earthing switch class E1 and shall be suitable for induced current switching duty as defined for Class-B as per relevant standard.

**B.2.3.3 Current Transformers (GIS)**

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) shall have five cores (four for protection and one for metering) whereas; CT in Tie bays shall have six cores (four for protections & two for metering) suitably distributed on both sides of CB (for 400kV and above voltage class). 220 kV Current Transformers shall have five cores (four for protection and one for metering). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. Accuracy class for protection core shall be PX and for metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering & protection system (not more than 20 VA for metering core) for better sensitivity and accuracy.

The instrument security factor shall be less than 5 for CTs upto 400 kV voltage class and less than 10 for CTs of 765 kV voltage class.

**B.2.3.4 Voltage Transformer (GIS)**

The voltage transformers shall conform to IEC-61869. Voltage transformers shall be of electromagnetic type with SF<sub>6</sub> gas insulation. The earth end of the high voltage winding and



94

PUNE-III TRANSMISSION LIMITED



## Transmission Service Agreement

the ends of the secondary winding shall be brought out in the terminal box. The voltage transformers shall be located as a separate bay module and will be connected phase to ground and shall be used for protection, metering and synchronization. The voltage transformers shall be of inductive type, nonresistant and shall be contained in their own-SF6 compartment, separated from other parts of installation. The voltage transformer shall be effectively shielded against high frequency electromagnetic transients. The voltage transformer shall have three secondary windings out of which two shall be used for protection and one for metering. The voltage transformer should be thermally and dielectrically safe when the secondary terminals are loaded with the guaranteed thermal burdens. The accuracy class for protection cores shall be 3P. The accuracy of 0.2 on metering core should be maintained throughout the entire burden range on all the three windings without any adjustments during operation. The rated burden of cores shall be closer to the maximum burden requirement of metering & protection system (not more than 50VA for metering core) for better sensitivity and accuracy.

**B.2.3.5 Surge Arresters (GIS) (if applicable)**

624 kV Station High (SH) duty, 336 kV Station High (SH) duty & 216 kV Station Medium (SM) duty gapless type Surge arresters with thermal energy (Wth) of minimum 13 kJ/kV, 12 kJ/kV & 7 kJ/kV respectively shall be provided for 800 kV, 420 kV & 245 kV system respectively conforming to IEC 60099-4 in general. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances, near transformers & Reactor so as to achieve proper insulation coordination. A leakage current monitor with surge counter shall be provided with each surge arrester.

**B.2.3.6 SF<sub>6</sub> to Air Bushing**

Outdoor bushings, for the connection of conventional external conductors to the SF<sub>6</sub> metal enclosed switchgear, shall be provided. Bushings shall generally be in accordance with the requirements of IEC-60137. The creepage distance over the external surface of outdoor bushings shall not be less than 31 mm/kV. SF<sub>6</sub> to air Bushing shall be of Polymer / composite type and shall be robust and designed for adequate cantilever strength to meet the requirement of seismic condition. The electrical and mechanical characteristics of bushings shall be in accordance with IEC-60137. Polymer / composite insulator shall be seamless sheath of silicon rubber compound. The housing & weather sheds should have silicon content of minimum 30% by weight. It should protect the bushing against environmental influences, external pollution and humidity. The hollow silicon composite insulators shall comply with the requirements of IEC 61462 and the relevant parts of IEC-62217.



Central Transmission Utility of India Limited

95

PUNE - III TRANSMISSION LIMITED



## Transmission Service Agreement

**B.2.4 765 kV, 400 kV and 220 kV AIS Substation equipment (as applicable)****B.2.4.1 Capacitive Voltage Transformers (AIS)**

Capacitive Voltage transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. Accuracy class for protection cores shall be 3P and for metering core it shall be 0.2. The Capacitive voltage transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 765 kV shall be 8800 pF. The Capacitance of CVT for 400 kV shall be of 4400/8800 pF depending on PLCC requirements. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

**B.2.4.2 Surge Arresters (AIS)**

624 kV Station High (SH) duty, 336 kV Station High (SH) duty & 216 kV Station Medium (SM) duty gapless type Surge arresters with thermal energy (Wth) of minimum 13 kJ/kV, 12 kJ/kV & 7 kJ/kV respectively shall be provided for 800kV, 420kV & 245kV system respectively conforming to IEC 60099-4 in general. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided near line entrances, transformers & Reactor so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

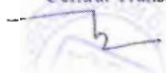
**B.2.5 Protection Relaying and Control System**

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC 61850 protocol with RTU/SAS/IEDs of different OEMs. All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

**a) Transmission Lines Protection**

765 kV and 400 kV lines shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. 765 kV and 400 kV lines shall also have Main-II



### Transmission Service Agreement

numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential relay (with back up distance protection feature) as Main-I and Main-II shall be considered at both ends for short lines (line length below 30 km) having Fibre Optic communication link. Differential relay at remote end shall be provided by the TSP. Associated power & control cabling and integration with SAS at remote end shall be provided by respective bay owner.

In case of loop in loop out of transmission lines, the existing protection scheme shall be studied and suitable up-gradation (if required) shall be carried out.

Further, all 765 kV and 400 kV lines shall be provided with single and three phase auto-reclosing facility to allow reclosing of circuit breakers in case of transient faults. These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 765kV & 400kV lines shall also be provided with two stages over voltage protection. Over voltage protection & distance to fault locator may be provided as in-built feature of Main-I & Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For 765kV and 400kV transmission lines, directional IDMT earth fault relay should be provided as standalone unit or in-built feature of Main-I and Main-II feature.

#### b) Auto Transformer Protection

These shall have the following protections:

- i) Numerical Differential protection
- ii) Numerical Restricted earth fault protection
- iii) Numerical Back-up Over-current and earth fault protection on HV & IV side
- iv) Numerical Over fluxing protection on HV & IV side
- v) Numerical Overload alarm

Further, Numerical Back-up Over-current and earth fault protection on HV & IV side of autotransformer shall not be combined with other protective functions in the main relays and shall be independent relays. Besides these, power transformers shall also be provided with Buchholz relay, Magnetic oil Gauge (MOG) with low oil level alarm, protection against high oil and winding temperature and pressure relief device etc.





## Transmission Service Agreement

Suitable monitoring, control (operation of associated circuit breaker & isolator) and protection for LT auxiliary transformer connected to tertiary winding of auto-transformer for the purpose of auxiliary supply shall be provided. The over current and other necessary protection shall be provided for the auxiliary transformer. These protection and control may be provided as built in feature either in the bay controller to be provided for the auxiliary system or in the control & protection IEDs to be provided for autotransformer.

**c) 765kV & 400kV Reactor Protection**

Reactor shall be provided with the following protections:

- i) Numerical Differential protection.
- ii) Numerical Restricted earth fault protection
- iii) Numerical Back-up impedance protection

Besides these, reactors shall also be provided with Buchholz relay, MOG with low oil level alarm, protection against oil and winding temperatures & pressure relief device, etc.

**d) Bus bar Protection**

The high speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 765kV, 400kV and 220kV buses. Duplicated bus bar protection is envisaged for 765kV & 400kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security. The scheme shall have complete bus bar protection for present as well as envisaged future bays i.e. input / output modules for future bays shall also be provided.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.

In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

For existing substations, the existing bus bar protection shall be augmented as per requirement.

**e) Local Breaker Back up Protection**

This shall be provided for each 765kV, 400kV and 220kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

*Notes:*

1. LBB & REF relays shall be provided separately from transformer differential relay.

Central Transmission Utility of India Limited

98

PUNE-III TRANSMISSION LIMITED





## Transmission Service Agreement

2. *LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).*
3. *Over fluxing & overload protection can be provided as built-in feature of differential relay.*
4. *In 765kV & 400kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*

**B.2.6 Substation Automation System**

- a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation system, where the controls shall be provided through Bay control units. The Bay control unit is to be provided bay wise for voltage level 220kV and above. All bay control units as well as protection units are normally connected through an Optical fibre high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in Substation Automation System.

At new substations, the Substation Automation System (SAS) shall be suitable for operation and monitoring of the complete substation including proposed future bays/elements.

In existing substations with Substation automation system (SAS), augmentation of existing SAS shall be done for bays under present scope.

In existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway & modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

**b) Time synchronization equipment**

Time synchronization equipment complete in all respect including antenna, cable, processing equipment required to receive time signal through GPS or from National Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS & IEDs etc.

## Transmission Service Agreement

**B.3.0 Substation Support facilities**

Certain facilities required for operation & maintenance of substations as described below shall be provided at new substation. In existing substation, these facilities have already been provided and would be extended/ augmented as per requirement.

**B.3.1 AC & DC power supplies**

For catering the requirements of three phase & single phase AC supply and DC supply for various substation equipment (for present and future scope), the following arrangement is envisaged:-

- (i) For LT Supply at each new Substation, two (2) nos. of auxiliary Transformers (minimum 800kVA for substations with highest voltage rating as 765kV) shall be provided which shall be fed from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007, as amended from time to time.

Metering arrangement with Special Energy Meters (SEMs) shall be provided by TSP at 33kV tertiary of Transformer for drawing auxiliary supply at new substation. Such SEMs shall be provided by CTU at the cost of the TSP. Accounting of such energy drawn by the TSP shall be done by RLDC/RPC as part of Regional Energy Accounting.

Additionally, Active Energy Meters may be provided at the same point in the 33kV tertiary of Transformer by local SEB/DISCOM for energy accounting.

- (ii) 2 sets of 220V battery banks for control & protection and 2 sets of 48 V battery banks for PLCC/ communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger.

At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets of 48 V battery banks for PLCC and communication equipment for present and future scope shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required. 48 V DC can be achieved from 220 V DC battery bank using adapter, if so desired by TSP, without compromising backup time.

- (iii) Suitable AC & DC distribution boards and associated LT Switchgear shall be provided at new substation.

- (iv) For new substation, following switch boards shall be considered with duplicate supply with bus coupler/ sectionalizer and duplicate outgoing feeders except for Emergency lighting distribution board which shall have only one incoming feeder:

- (a) 415V Main Switch board – 1 nos.
- (b) AC distribution board – 1 nos.

Central Transmission Utility of India Limited

100

PUNE-III TRANSMISSION LIMITED



### Transmission Service Agreement

- (c) Main lighting distribution board – 1 no.
- (d) Emergency lighting distribution board – 1 no.
- (e) 220 Volt DC distribution board – 2 nos.
- (f) 48 Volt DC distribution board – 2 nos.

Sizing of LT Switchgear shall be suitable to cater the requirement for all present and future bays. AC & DC distribution boards shall have modules for all the feeders (including future as specified).

- (v) At new Substation, one no. of DG set (minimum 500 kVA for substations with highest voltage rating as 765kV) shall be provided for emergency applications.
- (vi) For substation extensions, existing facilities shall be augmented as required.

#### B.3.2 Fire Fighting System

Fire-fighting system for substation including transformer and reactor shall conform to CEA (Measures Relating to Safety & Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided. Optical Beam type heat detection for GIS hall fire protection system shall be provided for all the GIS halls.

At existing substations, the fire-fighting systems as available shall be extended to meet the additional requirements.

#### B.3.3 Oil evacuating, filtering, testing & filling apparatus

To monitor the quality of oil for satisfactory performance of transformers, shunt reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV & above Voltage Class) as amended up to date available on CEA website.

## Transmission Service Agreement

**B.3.4 Illumination**

Normal & emergency AC & DC illumination shall be provided adequately in the control room & other buildings of the substation. The switchyard shall also be provided with adequate illumination.

Lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaries.

**B.3.5 Control Room**

For new substation, substation control room shall be provided to house substation work stations for station level control (SAS) alongwith its peripheral and recording equipment, AC & DC distribution boards, DC batteries & associated battery chargers, Fire Protection panels, Telecommunication panels & other panels as per requirements. Air conditioning shall be provided in the building as functional requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from control room for all the future bays also.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

**B.3.6 GIS hall**

The Gas Insulated Switchgear (GIS) of each voltage along with other associated equipment shall be housed inside **separate** GIS building. The panels i.e. Bay level units, bay mimic, relay and protection panels, RTCC panels, PLCC panels, panels for tele-communication system etc. are to be placed in a separate room in the GIS building. The size of the room shall be such that all the panels for the bays under present scope shall be accommodated. The panel room shall be air-conditioned. Further, the temperature of the room shall be monitored through substation automation system by providing necessary temperature transducers. Ventilation system of suitable capacity shall be provided for each GIS hall.

One EOT Crane of suitable capacity for erection & Maintenance of largest GIS component/assembly and all plant installed in the GIS switchgear room shall be provided in each GIS hall. The crane shall be capable of fulfilling all special requirements for erection & maintenance of GIS equipment. The capacity of the crane shall be sized to lift the heaviest GIS switchgear component.

For extension of existing GIS, existing facilities shall be suitably augmented/ extended for GIS equipment under present scope.

**B.3.7 Control Concept**

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators





## Transmission Service Agreement

shall have control from remote/local whereas the earth switches shall have local control only.

**B.3.8 Visual monitoring system (VMS) for watch and ward of substation premises:**

Visual monitoring system for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), GIS bays, panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera shall be high definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID & location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

At existing substations, the visual monitoring system if available shall be augmented as per existing or better specification as required.

**B.4 General Facilities**

- a) Line Gantry/Towers are envisaged for bays under present scope only. However, for adjacent future line bay, tower shall be designed for extension (considering Quad conductors for 765kV & 400kV future lines) wherever applicable.
- b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirement/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.
- c) TSP has to arrange for construction power and water on its own.
- d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 g/m<sup>2</sup>. However, for coastal/creek regions it shall be at least 900 g/m<sup>2</sup>.

Central Transmission Utility of India Limited

103

PUNE- III TRANSMISSION LIMITED





## Transmission Service Agreement

- e) In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie & Future bay shall be designed considering the current rating of line bay i.e. 3150 A.
- f) Boundary wall shall be brick masonry wall with RCC frame or Stone masonry wall or Precast RCC wall under present scope along the property line of complete substation area including future switchyard area to prevent encroachment and unauthorized access. Minimum height of the boundary wall shall be of 1.8 m from finished ground level (FGL) as per CEA Measures Relating to Safety and Electric Supply Regulations, 2023, as amended from time to time.
- g) All electrical equipment shall be installed above Highest Flood Level and where such equipment is not possible to be installed above Highest Flood Level, it shall be ensured that there is no seepage or leakage or logging of water.

**B.5 EXTENSION OF EXISTING SUBSTATION**

The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder.

| Sl. No.   | Drawing Title                      | Drawing No./Details                   | Rev. No. |
|-----------|------------------------------------|---------------------------------------|----------|
| <b>A.</b> | <b>765kV Boisar-II GIS</b>         |                                       |          |
| 1.0       | Single Line Diagram                | Boisar-II GIS is under bidding stage. |          |
| 2.0       | General Arrangement                |                                       |          |
| 3.0       | Earthmat Layout                    |                                       |          |
| 4.0       | Visual Monitoring System           |                                       |          |
| 5.0       | Bus Bar Protection                 |                                       |          |
| 6.0       | Substation Automation System (SAS) |                                       |          |

Bidder is also advised to visit the substation sites and acquaint themselves with the topography, infrastructure such as requirement of roads, cable trench, drainage etc. and also the design philosophy.



## Transmission Service Agreement

**SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION**

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, and CEA (Cyber Security in Power Sector) Guidelines, 2021, all above documents as amended from time to time.

The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

The communication services viz. SCADA, VoIP, PMU, AGC and AMR (wherever applicable) have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.

PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs.

The protections for transmission line and the line compensating equipment shall have hundred percent back up communication channels i.e. two channels for tele- protection in addition to one channel for speech plus data for each direction.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide the following:

**C.1.0 Establishment of 2x1500 MVA, 765/400 kV & 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor.**

- (I) TSP shall supply, install & commission One or more no. FODP (168 F or higher) alongwith panel and approach Cable (24F each) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.
- (II) TSP shall supply, install & commission One or more STM-16 (FOTE) equipment alongwith panel/s supporting minimum Seven (7) directions with MSP (Multiplex



## Transmission Service Agreement

Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any). Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement among Pune-III (GIS), Boisar-II, Pune (GIS), Narendra (New), Koyna (M), and Hinjewadi (M) S/s. The suitable DC Power Supply and backup to be provided for communication equipment.

- (III) FODP & FOTE equipment with panels shall be provided in Control Room of Pune-III (GIS). FOTE & FODP Eq can be accommodated in same panel to optimize space.
- (IV) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.
- (V) TSP shall supply, install & commission Firewall in redundant mode (1+1) in line with the specification attached at Annexure F.1.
- (VI) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank & Firewall shall be the responsibility of TSP.

#### C.2.0 Pune-III (GIS) – Boisar-II (GIS) 765 kV D/C line

On Pune-III (GIS)– Boisar-II (GIS) 765 kV D/C line, TSP shall supply, install & commission One (1) no. OPGW cable containing 24 Fibres (24F) on one E/W peak and conventional earth wire on other E/W peak.

The TSP shall install this OPGW from gantry of Pune-III (GIS) up to the gantry of Boisar-II (GIS) S/s with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is **200 kms** (approx.) which can be managed as a repeater less link, however after survey link length may exceed to 220 kms. To meet link budget requirement of Boisar-II (GIS) – Pune-III (GIS) link (including service loops and sag etc.) 1 set of FOTE at repeater station to be provided by TSP.

TSP shall finalize the location of repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per **Appendix-F.1** Maintenance of OPGW Cable, OPGW Hardware & repeater equipment & items associated with repeater shelter shall be responsibility of TSP.



## Transmission Service Agreement

**C.3.0 2 Nos. of 765 kV line bays at Boisar-II for termination of Pune-III – Boisar-II 765 kV D/C line.**

- (I) TSP shall supply, install & commission required Approach Cable (24F) with all associated hardware fittings from gantry tower to Relay Panel room.
- (II) MSP (Multiplex Section Protection – 1+1) direction for Pune-III S/s in upcoming FOTE at Boisar-II S/s has been considered in the scope of "Transmission System for Evacuation of power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part C". TSP shall supply, install & commission necessary interfaces to meet the voice and data communication requirement between Boisar-II (GIS), Pune-III (GIS) S/s.
- (III) The maintenance approach cable shall be the responsibility of TSP.

**C.4.0 LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III.**

On LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III S/s, TSP shall supply, install & commission OPGW and earthwire as per Tower Configurations:

- (i) For Multi Circuit Tower Configuration: Two (2) no. OPGW cable containing 24 Fibres (24F) to be installed & commissioned by the TSP on both the Earthwire peaks
- (ii) For Double Circuit Tower configuration (for both Loop In and Loop Out portion): One (1) no. OPGW cable containing 24 Fibres (24F) on one earthwire peak & conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.

The TSP shall install OPGW cables from gantry of Pune-III (GIS) S/s up to the LILO tower with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Pune-III (GIS) S/s. The transmission line length is **10 kms (approx.)**. After LILO, if fiber length for links Narendra (New) to Pune-III and Pune-III to Pune (GIS) is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.

TSP shall finalize the location of repeater station depending upon the actual site conditions.

Further TSP shall comply to the requirements mentioned as per **Appendix-F.1**

Maintenance of OPGW Cable, OPGW Hardware & repeater equipment & items associated with repeater shelter shall be responsibility of TSP.

**C.5.0 LILO of Hinjewadi-Koyna 400 kV S/c line at Pune-III (GIS) S/s.**

On LILO of Hinjewadi-Koyna 400 kV S/c line at Pune-III S/s, TSP shall supply, install & commission OPGW and earthwire as per Tower Configurations:



## Transmission Service Agreement

- (i) For Multi Circuit Tower Configuration: Two (2) no. OPGW cable containing 24 Fibres (24F) to be installed & commissioned by the TSP on both the Earthwire peaks
- (ii) For Double Circuit Tower configuration (for both Loop In and Loop Out portion): One (1) no. OPGW cable containing 24 Fibres (24F) on one earthwire peak & conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.

The TSP shall install OPGW cables from gantry of Pune-III (GIS) S/s up to the LILO tower with all associated hardware including Vibration Dampers, mid-way & gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Pune-III (GIS) S/s. The transmission line length is **40 kms (approx.)** which can be managed as a repeater less links for Hinjewadi to Pune-III and Pune-III to Koyana hence repeater equipment is not envisaged. Maintenance of OPGW Cable, OPGW Hardware shall be responsibility of TSP.

#### C.6.0 Specific Requirement for Phasor Measurement Units (PMUs)

TSP shall supply, install & commission required no. of Phasor Measurement Units (PMUs) PMUs at all the locations under the scope of TSP under this RFP as per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 (alongwith all amendments if any), and all the applicable Regulations, Standards, Guidelines issued time to time. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fibre Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

**Note:** Existing Station owner/s to provide necessary support to integrate different equipment & applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.





## Transmission Service Agreement

## Appendix-F.1

## Repeater Requirements

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide 1 no. OPGW (48F) on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and 1 no. Approach Cable (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.  
TSP shall co-ordinate for Space & DC power supply sharing for repeater equipment.

TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.

OR

- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide 1 no. OPGW (48F) on a single Earthwire peak with OPGW Hardware & mid-way Joint Boxes etc. of the line crossing the main line and 1 no. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.

TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide 1 no. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings to establish connectivity up to the location of repeater shelter.

TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems

Maintenance of OPGW Cable and **OPGW Hardware**, repeater equipment & items associated with repeater shelter shall be responsibility of TSP.



Proposed Communication for Transmission System for Evacuation of power from potential renewable energy zone in Khavda area of Gujarat under Phase-IV (7 GW): Part D

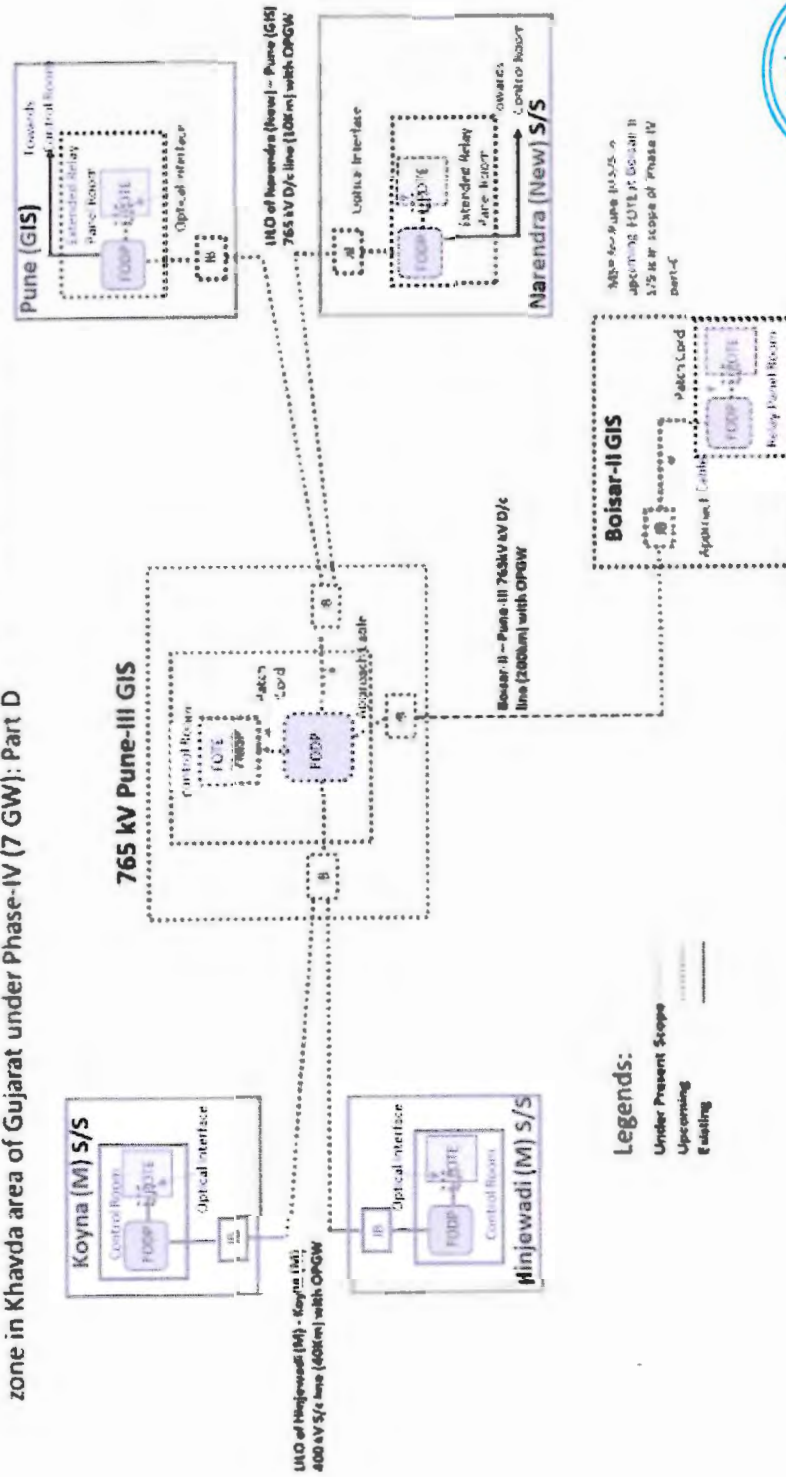


**Figure F.1**

## Transmission Service Agreement

## Annexure-F.1

**Next Generation Firewall (NGFW)**

TSP shall provide 2 NGFW one in Main & another in Standby mode having electrical ethernet interfaces/ports and placed between FOTE & SAS gateway/s at the substation. All ethernet based applications shall be terminated in the firewall ports directly (e.g. PMU, AMR, VOIP, SAS/SCADA etc.). Each port of firewall shall work as a separate zone. Firewall shall be hardware based with features of Block/Allow/drop and IPSec VPN (network encryption).

The number of ports/interfaces in each firewall (i.e. Main & Standby) shall be minimum 16 nos. TSP shall provide either single firewall or multiple firewalls to meet this interfaces requirement, each for main as well as standby firewall. Minimum throughput of firewall shall be 300 Mbps.

The Firewall shall be managed/ configured as standalone at present and shall also have compatibility to manage/configure through Centralized Management Console (CMC) remotely in future.

Firewall shall be tested and certified for ISO15408 Common Criteria for least EAL4+. Further, the OEM must certify that it conforms to Secure Product Development Life Cycle requirements as per IEC62443-4-1. The firewall shall generate reports for NERC-CIP Compliance.

The specifications for the firewalls are given at **Annexure-F.2** and schematic diagram showing firewall placement given at **Figure F.2**.

Central Transmission Utility of India Limited 111 PUNE-III TRANSMISSION LIMITED



## Transmission Service Agreement

## Annexure F.2

## Specifications of Next Generation Firewall (NGFW)

1. NGFW shall have following features including but not limited to:  
Encryption through IPSec VPN (Virtual Private Network), Deep Packet Inspection (DPI), Denial of service (DoS) & Distributed Denial of Service (DDoS) prevention, Port Block/ Allow, rules/ policies for block/allow, IP (Internet Protocol) & Media Access Control (MAC) spoofing protection, threat detection, Intrusion Prevention System (IPS), Anti-Virus, Anti-Spyware, Man In The Middle (MITM) attack prevention.
2. The proposed firewall shall be able to handle (alert, block or allow) unknown /unidentified applications e.g. unknown TCP & UDP packets. It shall have the provision to define application control list based on application group and/or list.
3. Firewall shall have feature and also have capability to update the definition/ Signatures of Anti-Virus online as well as offline. Firewall shall also be compatible to update the definitions/signatures through CMC. There shall be a defined process for security patching and firmware up-gradation. There shall be a feature to field validate firmware checksum. The same shall also be validated before using the OEM provided file/binary in the process of firmware up-gradation and security patching
4. Firewall shall have Management Console port to configure remotely.
5. Firewall shall be EMI/EMC compliant in Substation environment as per IEC 61850-3.
6. Firewall shall be rack mounted in existing standard equipment cabinets.
7. Firewall shall have support of SCADA applications (IEC-60870-5-104), IEC, PMU (IEEE C37.118), Sub-Station Automation System (IEC 61850), Ethernet and other substation environment protocols.
8. Client based Encryption/ VPN must support different Operating System platforms e.g. Windows, Linux & Mac.
9. The solution must have content and comprehensive file detection policies, blocking the files as function of their types, protocols and directions.
10. Firewall shall have logging facility as per standard logs/events format. Firewall shall have features to export the generated/stored logs/events in csv (Comma Separated Value) and also any other standard formats for offline usage, analysis and compliance. Firewall shall

Central Transmission Utility of India Limited

112

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

have suitable memory architecture and solution to store and be enable to export all logs/events for a period of last 90 days at any given time.

11. Firewall shall have features and be compatible with local as well as central authentication system (RADIUS, LDAP, or TACACS+) for user account and access right management. It shall also have Role Based User management feature.
12. Firewall shall have the capability to configure sufficient number of VLANs.
13. Firewall shall have the capability to support sufficient number of sessions.
14. Firewall shall have provision to configure multiple IP Sec VPNs, at least 100 nos., (one-to-many or many-to-one). Shall support redundant operation with a similar router after creation of all the IP Sec VPN. IPSec VPN shall support encryption protocols as AES128, AES256 and hashing algorithms as MD5 and SHA1. IPSec VPN throughput shall support at least 300 Mbps
15. Firewall shall be capable of SNMP v3 for monitoring from Network Management system. It shall also have SNMPv3 encrypted authentication and access security
16. Firewall shall support in Active/Passive or Active-Active mode with High Availability features like load balancing, failover for firewall and IPsec VPN without losing the session connectivity.
17. Firewall should have integrated traffic shaping (bandwidth, allocation, prioritisation, etc.) functionality
18. Shall support simultaneous operation with both IPv4 and IPv6 traffic
19. Firewall shall be compatible with SNTP/NTP or any other standards for clock synchronization
20. Firewall shall have the features of port as well as MAC based security
21. Firewall shall support exporting of logs to a centralized log management system (e.g. syslog) for security event and information management.
22. Firewall time shall be kept synchronised to official Indian Timekeeping agency, time.nplindia.org.
23. Firewall product shall be provided with all applicable updates at least until 36 months since the applicable date of product shipping to the concerned utility.

  
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## Transmission Service Agreement

## Firewall Placement Diagram

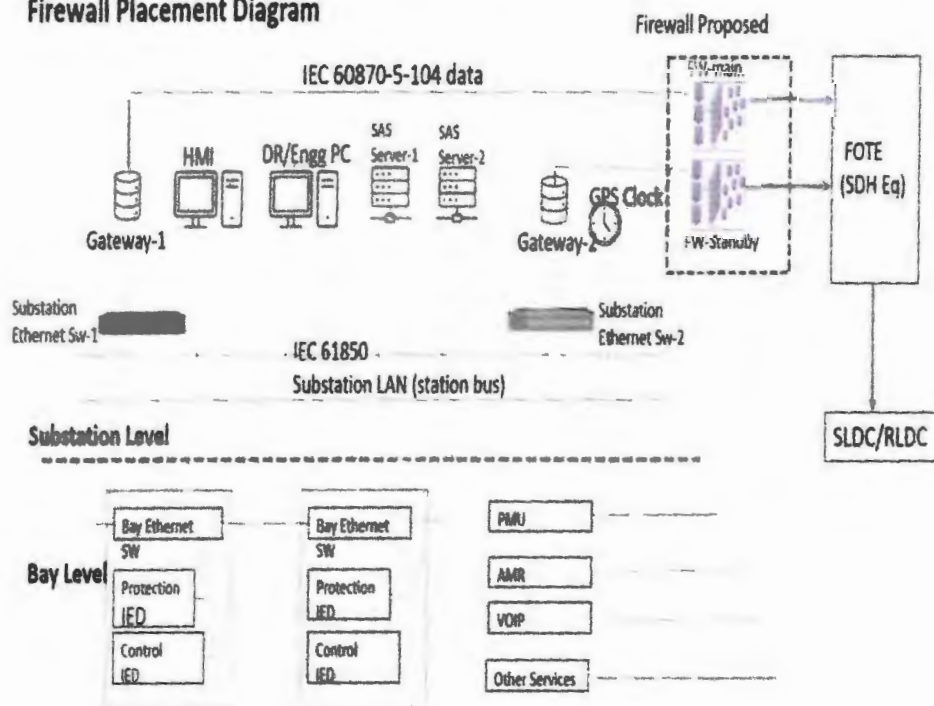


Figure F.2

Central Transmission Utility of India Limited

T-14

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## Transmission Service Agreement

**C.7.0 PLCC & PABX:**

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The PLCC equipment shall in brief include the following: -

- Coupling device, line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.
- At new substation, a telephone exchange (PABX) of 24 lines shall be provided at as means of effective communication among various buildings of the substation, remote end substations and with control centres (RLDC/SLDC) etc.
- Coupling devices shall be suitable for phase-to-phase coupling for 765kV & 400kV Transmission lines. The pass band of coupling devices shall have sufficient margin for adding communication channel in future if required. Necessary protection devices for safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.
- The line traps shall be broad band tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain substation in case of extreme frequency congestion.
- The carrier terminals shall be of single side-band (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be considered for both ends of the line.
- PLCC equipment for all the transmission lines covered under the scheme shall be provided by TSP. PLCC to be provided for following lines under present scope:

| Sl. No | Line name                                      | PLCC configuration                                                                  |
|--------|------------------------------------------------|-------------------------------------------------------------------------------------|
| 1      | Boisar-II(GIS) – Pune-III(GIS) 765 kV D/C line | 1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends. |

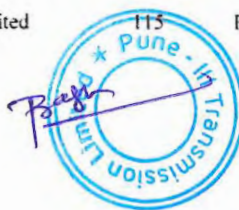
Further, CVT & Wave trap for all 765 kV, 400 kV & 220 kV line bays under present scope shall be provided by TSP.

- TSP shall provide/ undertake necessary addition/ modification/ shifting/ re-commissioning etc. of PLCC equipment due to LILO of transmission lines (wherever applicable).

| Sl. No | Line name                     | PLCC configuration                           |
|--------|-------------------------------|----------------------------------------------|
| 1      | LILO of Narendra (New) – Pune | 1 set Analog PLCC + 1 set Digital Protection |

Central Transmission Utility of India Limited

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

|   |                                                          |                                                                                                                                          |
|---|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
|   | (GIS) 400 kV D/c line at Pune-III (GIS)                  | Coupler for each circuit at each end after LILO. Existing PLCC panels may also be utilized.                                              |
| 2 | LILO of Hinjewadi-Koyna 400kV line at Pune-III (GIS) S/s | 1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at each end after LILO. Existing PLCC panels may also be utilized. |

- All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.
- 2 sets of 48 V battery banks for PLCC and communication equipment shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required.

Central Transmission Utility of India Limited

116

PUNE-III TRANSMISSION LIMITED



## Transmission Service Agreement

**Schedule: 2**  
**Scheduled COD**

[Note: As referred to in the definition of "Element", "Scheduled COD", and in Articles 3.1.3 (c), 4.1 (b) and 4.3 (a) of this Agreement]

| Sl. No. | Name of the Transmission Element                                                                                                                                                                 | Scheduled COD from effective date | Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project | Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element                          |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 1       | Establishment of 2x1500 MVA, 765/400 kV & 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor.                                       | 24 months (19/11/2026)            | 29.55 %                                                                                              | All the elements are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other. |
| 2       | <ul style="list-style-type: none"> <li>Boisar-II – Pune-III 765 kV D/c line.</li> <li>2 Nos. of 765 kV line bays at Boisar-II for termination of Boisar-II – Pune-III 765 kV D/c line</li> </ul> |                                   | 58.60 %                                                                                              |                                                                                                                                   |
| 3       | 330 MVAR switchable line reactors at Pune-III end of Boisar-II – Pune-III 765 kV D/c line (with NGR bypass arrangement).                                                                         |                                   |                                                                                                      |                                                                                                                                   |
| 4       | LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III                                                                                                                                  |                                   | 11.03%                                                                                               |                                                                                                                                   |
| 5       | 330 MVAR switchable line reactors at Pune-III end of Narendra (New) – Pune-III (GIS) 765 kV D/c line (with NGR bypass arrangement).                                                              |                                   |                                                                                                      |                                                                                                                                   |
| 6       | LILO of Hinjewadi-Koyna 400 kV S/c line at Pune-III (GIS) S/s                                                                                                                                    |                                   | 0.82%                                                                                                |                                                                                                                                   |
| 7       | 80 MVAR, 420 kV switchable Line Reactor at Pune-III (GIS) end of Pune-III (GIS) – Koyna 400 kV line formed after above LILO (with NGR bypass arrangement).                                       |                                   |                                                                                                      |                                                                                                                                   |

Central Transmission Utility of India Limited



PUNE-III TRANSMISSION LIMITED



### Transmission Service Agreement

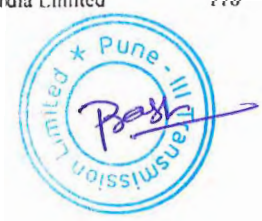
The payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after successful commissioning of the Element(s) which are pre-required for declaring the commercial operation of such Element as mentioned in the above table.

Scheduled COD for the Project: 24 Months from Effective Date(19/11/2026).

Central Transmission Utility of India Limited

118

PUNE-III TRANSMISSION LIMITED





## Transmission Service Agreement

## Schedule: 3

## Safety Rules and Procedures

[Note: As referred to in Articles 5.6 of this Agreement]

**1. Site Regulations and Safety:**

The TSP shall establish Site regulations within sixty (60) days from fulfilment of conditions subsequent, as per Prudent Utility Practices setting out the rules to be observed till expiry of the Agreement at the Site and shall comply therewith.

Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety of the Project, gate control, sanitation, medical care, and fire prevention, public health, environment protection, security of public life, etc.

Copies of such Site regulations shall be provided to the Nodal Agency and the CEA for the purpose of monitoring of the Project.

**2. Emergency Work:**

In cases of any emergency, the TSP shall carry out all necessary remedial work as may be necessary.

If the work done or caused to be done by any entity, other than the TSP, the TSP shall, reimburse the actual costs incurred, to the other Party carrying out such remedial works.

**3. Site Clearance:**

In the course of execution of the Agreement, the TSP shall keep the Site reasonably free from all unnecessary obstruction, storage, remove any surplus materials, clear away any wreckage, rubbish and temporary works from the Site, and remove any equipment no longer required for execution of the Agreement. After completion of all Elements of the Project, the TSP shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site clean and safe.

**4. Watching and Lighting:**

The TSP shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper construction, operation, maintenance / repair of any of the Elements of the Project, or for the safety of the owners and occupiers of adjacent property and for the safety of the public, during such maintenance / repair.

Central Transmission Utility of India Limited

119

FUNE-III TRANSMISSION LIMITED



**Schedule: 4****Computation of Transmission Charges****1.1 General**

The Monthly Transmission Charges to be paid to the TSP for providing Transmission Service for any Contract Year during the term of the Agreement shall be computed in accordance with this Schedule and paid as per Sharing Regulations.

Illustration regarding payment of Transmission Charges under various scenarios (considering definitions of Contract Year, Expiry Date & Monthly Transmission Charges above) is as below: -

Illustration-1: In case the Project Elements achieve COD as per Schedule

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

| Element No. | Completion Schedule in Months | Scheduled CoD of the Element | Actual CoD of the Element | % Charges recoverable on Scheduled CoD of the Element |
|-------------|-------------------------------|------------------------------|---------------------------|-------------------------------------------------------|
| Element 1   | 28                            | 1-Feb-2018                   | 1-Feb-2018                | 25%                                                   |
| Element 2   | 38                            | 1-Dec-2018                   | 1-Dec-2018                | 75%                                                   |

Tariff Payable as follows:

| Transmission Charges for Element 1 |                                        |       | Transmission Charges for Element 2 |    |       |
|------------------------------------|----------------------------------------|-------|------------------------------------|----|-------|
| 1-Feb-18 to 31-Mar-18              | $140 \times 25\% \times ((28+31)/365)$ | 5.65  |                                    | -- | 0.00  |
| 1-Apr-18 to 30-Nov-18              | $140 \times 25\% \times (244/365)$     | 23.39 |                                    | -- | 0.00  |
| 1-Dec-18 to 31-Mar-19              | $140 \times 100\% \times (121/365)$    |       |                                    |    | 46.41 |
| 2                                  | $140 \times 100\% \times 1$            |       |                                    |    | 140   |
| 3                                  | $140 \times 100\% \times 1$            |       |                                    |    | 140   |
| 4                                  | $140 \times 100\% \times 1$            |       |                                    |    | 140   |
| 5                                  | $140 \times 100\% \times 1$            |       |                                    |    | 140   |
| .....                              |                                        |       |                                    |    |       |
| .....                              |                                        |       |                                    |    |       |
| 36<br>(1-Apr to 30-Nov)            | $140 \times 100\% \times (244/365)$    |       |                                    |    | 93.59 |

Central Transmission Utility of India Limited

120

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

**Illustration-2: In case of extension of Scheduled CoD as per Article 4.4.1 & 4.4.2 of this Agreement**Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

| Element No. | Completion Schedule in Months | Scheduled CoD of the Element | Actual CoD of the Element | % Charges recoverable on Scheduled CoD of the Element |
|-------------|-------------------------------|------------------------------|---------------------------|-------------------------------------------------------|
| Element 1   | 20                            | 1-Feb-2018                   | 1-Jul-2018                | 25%                                                   |
| Element 2   | 28                            | 1-Oct-2018                   | 1-Dec-2018                | 75%                                                   |

Tariff Payable as follows:

| Transmission Charges for Element 1 |                        |       | Transmission Charges for Element 2 |    |       |
|------------------------------------|------------------------|-------|------------------------------------|----|-------|
| 1-Feb-18 to 31-Mar-18              | --                     | 0.00  |                                    | -- | 0.00  |
| 1-Apr-18 to 30-Jun-18              | --                     | 0.00  |                                    | -- | 0.00  |
| 1-Jul-18 to 30-Nov-18              | 140 X 25% X (153/365)  | 14.67 |                                    | -- | 0.00  |
| 1-Dec-18 to 31-Mar-19              | 140 X 100% X (121/365) |       |                                    |    | 46.41 |
| 2                                  | 140 X 100% X 1         |       |                                    |    | 140   |
| 3                                  | 140 X 100% X 1         |       |                                    |    | 140   |
| 4                                  | 140 X 100% X 1         |       |                                    |    | 140   |
| 5                                  | 140 X 100% X 1         |       |                                    |    | 140   |
| .....                              |                        |       |                                    |    |       |
| .....                              |                        |       |                                    |    |       |
| 36 (1-Apr to 30-Nov)               | 140 X 100% X (244/365) |       |                                    |    | 93.59 |

Central Transmission Utility of India Limited



PUNE HT TRANSMISSION LIMITED



## Transmission Service Agreement

**Illustration-3: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year 1)**

Quoted Transmission Charges: Rs. 140 Million

Completion Schedule:

| Element No. | Completion Schedule in Months | Scheduled CoD of the Element | Actual CoD of the Element | % Charges recoverable on Scheduled CoD of the Element |
|-------------|-------------------------------|------------------------------|---------------------------|-------------------------------------------------------|
| Element 1   | 20                            | 1-Feb-2018                   | 1-Dec-2018                | 25%                                                   |
| Element 2   | 28                            | 1-Oct-2018                   | 1-Dec-2018                | 75%                                                   |

Tariff Payable as follows:

| Transmission Charges for Element 1 |                        |      | Transmission Charges for Element 2 |    |       |
|------------------------------------|------------------------|------|------------------------------------|----|-------|
| 1-Feb-18 to 31-Mar-18              | --                     | 0.00 |                                    | -- | 0.00  |
| 1-Apr-18 to 30-Sept-18             | --                     | 0.00 |                                    | -- | 0.00  |
| 1-Oct-18 to 30-Nov-18              | --                     | 0.00 | 1-Oct-18 to 30-Nov-18              | -- | 0.00  |
| 1-Dec-18 to 31-Mar-19              | 140 X 100% X (121/365) |      |                                    |    | 46.41 |
| 2                                  | 140 X 100% X 1         |      |                                    |    | 140   |
| 3                                  | 140 X 100% X 1         |      |                                    |    | 140   |
| 4                                  | 140 X 100% X 1         |      |                                    |    | 140   |
| 5                                  | 140 X 100% X 1         |      |                                    |    | 140   |
| .....                              |                        |      |                                    |    |       |
| .....                              |                        |      |                                    |    |       |
| 36<br>(1-Apr to 30-Nov)            | 140 X 100% X (244/365) |      |                                    |    | 93.59 |

Central Transmission Utility of India Limited



PUNE - III TRANSMISSION LIMITED



## TRANSMISSION SERVICE AGREEMENT

**Illustration-4: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year other than Contract Year 1)**

Quoted Transmission Charges: Rs. 140 Million

Completion Schedule:

| Element No. | Completion Schedule in Months | Scheduled CoD of the Element | Actual CoD of the Element | % Charges recoverable on Scheduled CoD of the Element |
|-------------|-------------------------------|------------------------------|---------------------------|-------------------------------------------------------|
| Element 1   | 38                            | 1-Oct-2019                   | 1-May-2020                | 25%                                                   |
| Element 2   | 38                            | 1-Oct-2019                   | 1-May-2020                | 75%                                                   |

Tariff Payment to be paid as:

| Transmission Charges for Element 1 |                        |      | Transmission Charges for Element 2 |    |        |
|------------------------------------|------------------------|------|------------------------------------|----|--------|
| 1-Oct-19 to 31-Mar-20              | --                     | 0.00 | 1-Oct-19 to 31-Mar-20              | -- | 0.00   |
| 1-Apr-20 to 30-Apr-20              | -                      | 0.00 | 1-Apr-20 to 30-Apr-20              | -  | 0.00   |
| 1-May-20 to 31-Mar-21              | 140 X 100% X (335/365) |      |                                    |    | 128.49 |
| 2                                  | 140 X 100% X 1         |      |                                    |    | 140    |
| 3                                  | 140 X 100% X 1         |      |                                    |    | 140    |
| 4                                  | 140 X 100% X 1         |      |                                    |    | 140    |
| 5                                  | 140 X 100% X 1         |      |                                    |    | 140    |
| .....                              |                        |      |                                    |    |        |
| .....                              |                        |      |                                    |    |        |
| 36<br>(1-Apr to 30-Apr)            | 140 X 100% X (30/ 365) |      |                                    |    | 11.51  |



Central Transmission Utility of India Limited



PUNE - III TRANSMISSION LIMITED





## Transmission Service Agreement

**Illustration5: In case of delay in achieving COD of Element but Project COD achieved on time**

Quoted Transmission Charges: Rs. 140 Million

Completion Schedule:

| Element No. | Completion Schedule in Months | Scheduled CoD of the Element | Actual CoD of the Element | % Charges recoverable on Scheduled CoD of the Element |
|-------------|-------------------------------|------------------------------|---------------------------|-------------------------------------------------------|
| Element 1   | 20                            | 1-Feb-2018                   | 1-Jul-2018                | 25%                                                   |
| Element 2   | 30                            | 1-Dec-2018                   | 1-Dec-2018                | 75%                                                   |

Tariff Payable as follows:

| Transmission Charges for Element 1 |                        |       | Transmission Charges for Element 2 |    |       |
|------------------------------------|------------------------|-------|------------------------------------|----|-------|
| 1-Feb-18 to 31-Mar-18              | --                     | 0.00  |                                    | -- | 0.00  |
| 1-Apr-18 to 30-Jun-18              | --                     | 0.00  |                                    | -- | 0.00  |
| 1-Jul-18 to 30-Nov-18              | 140 X 25% X (153/365)  | 14.67 |                                    | -- | 0.00  |
| 1-Dec-18 to 31-Mar-19              | 140 X 100% X (121/365) |       |                                    |    | 46.41 |
| 2                                  | 140 X 100% X 1         |       |                                    |    | 140   |
| 3                                  | 140 X 100% X 1         |       |                                    |    | 140   |
| 4                                  | 140 X 100% X 1         |       |                                    |    | 140   |
| 5                                  | 140 X 100% X 1         |       |                                    |    | 140   |
| .....                              |                        |       |                                    |    |       |
| .....                              |                        |       |                                    |    |       |
| 36<br>(1-Apr to 30-Nov)            | 140 X 100% X (244/365) |       |                                    |    | 93.59 |

Central Transmission Utility of India Limited

124

PUNE-III TRANSMISSION LIMITED

**Illustration-6: In case of early commissioning of Project**Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

| Element No. | Completion Schedule in Months | Scheduled CoD of the Element | Actual CoD of the Element | % Charges recoverable on Scheduled CoD of the Element |
|-------------|-------------------------------|------------------------------|---------------------------|-------------------------------------------------------|
| Element 1   | 38                            | 1-Oct-2019                   | 1-Jul-2019                | 25%                                                   |
| Element 2   | 38                            | 1-Oct-2019                   | 1-Jul-2019                | 75%                                                   |

Tariff Payment to be paid as:

| Transmission Charges for Element 1 |                        | Transmission Charges for Element 2 |
|------------------------------------|------------------------|------------------------------------|
| 1-July-19 to 31-Mar-20             | 140 X 100% X (274/365) | 105.09                             |
| 2                                  | 140 X 100% X 1         | 140                                |
| 3                                  | 140 X 100% X 1         | 140                                |
| 4                                  | 140 X 100% X 1         | 140                                |
| 5                                  | 140 X 100% X 1         | 140                                |
| .....                              |                        |                                    |
| 36<br>(1-Apr to 30-Jun)            | 140 X 100% X (91/365)  | 34.91                              |

Central Transmission Utility of India Limited

125

PUNE - III TRANSMISSION LIMITED

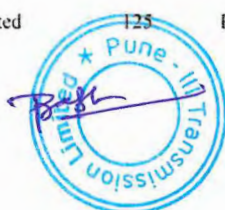


**Illustration-7: In case of early commissioning of an element**

Quoted Transmission Charges: Rs. 140 Million

Completion Schedule:

| Element No. | Completion Schedule in Months | Scheduled CoD of the Element | Actual CoD of the Element | % Charges recoverable on Scheduled CoD of the Element |
|-------------|-------------------------------|------------------------------|---------------------------|-------------------------------------------------------|
| Element 1   | 38                            | 1-Oct-2019                   | 1-Apr-2019                | 25%                                                   |
| Element 2   | 38                            | 1-Jul-2019                   | 1-Jul-2019                | 75%                                                   |

Tariff Payment to be paid as:

| Transmission Charges for Element 1 |                         |      | Transmission Charges for Element 2 |    |        |
|------------------------------------|-------------------------|------|------------------------------------|----|--------|
| 1-Apr-2019 to 30-Jun-19            | 140 X 25% X (91/365)    | 8.72 | 1-Apr-2019 to 30-Jun-19            | -- | 0.00   |
| 1-July-19 to 31-Mar-20             | 140 X 100% X (274/ 365) |      |                                    |    | 105.09 |
| 2                                  | 140 X 100% X 1          |      |                                    |    | 140    |
| 3                                  | 140 X 100% X 1          |      |                                    |    | 140    |
| 4                                  | 140 X 100% X 1          |      |                                    |    | 140    |
| 5                                  | 140 X 100% X 1          |      |                                    |    | 140    |
| .....                              |                         |      |                                    |    |        |
| .....                              |                         |      |                                    |    |        |
| 36<br>(1-Apr-30-Jun)               | 140 X 100% X (91/365)   |      |                                    |    | 34.91  |

The Transmission Charges shall be payable on monthly basis as computed above.

**1.2 Computation of Monthly Transmission Charges**

The Monthly Transmission Charges for any month m in a Contract Year n shall be calculated as below:

For AC System:

- a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 98% and less than or equal to 98.5%;

$$\text{Monthly Transmission Charges MTC}(m) = T_{mn} * 1$$

- a. If Actual Transmission System Availability for the month m of contract year n exceeds 98.5% and less than or equal to 99.75%;

$$\text{Monthly Transmission Charges MTC}(m) = T_{mn} * (AA / 98.5\%)$$

- c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

$$\text{Monthly Transmission Charges MTC}(m) = T_{mn} * (99.75\% / 98.5\%)$$

Central Transmission Utility of India Limited

126

PUNE-III TRANSMISSION LIMITED



## Transmission Service Agreement

- d. If Actual Transmission System Availability for the month m of contract year n is less than 98% and greater than or equal to 95.00%;

$$\text{Monthly Transmission Charges MTC}(m) = Tmn * (AA/ 98\%)$$

- e. If Actual Transmission System Availability for the month m of contract year falls below 95%;

$$\text{Monthly Transmission Charges MTC}(m) = Tmn * (AA/ 98\%) - 0.02 * (Tmn * (AA/ 95\%))$$

For DC System:

- a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 95% and less than or equal to 96%;

$$\text{Monthly Transmission Charges MTC}(m) = Tmn * 1$$

- b. If Actual Transmission System Availability for the month m of contract year n exceeds 96% and less than or equal to 99.75%;

$$\text{Monthly Transmission Charges MTC}(m) = Tmn * (AA/ 96\%)$$

- c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

$$\text{Monthly Transmission Charges MTC}(m) = Tmn * (99.75\% / 96\%)$$

- d. If Actual Transmission System Availability for the month m of contract year n is less than 95% and greater than or equal to 92.00%;

$$\text{Monthly Transmission Charges MTC}(m) = Tmn * (AA/ 95\%)$$

- e. If Actual Transmission System Availability for the month m of contract year falls below 92%;

$$\text{Monthly Transmission Charges MTC}(m) = Tmn * (AA/ 95\%) - 0.02 * (Tmn * (AA/ 92\%))$$

where:

- AA is the actual Availability, as certified by RPC, as per procedure provided in Schedule 6.
- m is the month in Contract Year 'n'
- Tmn = Transmission Charges for the month 'm' in Contract Year 'n' = (=Transmission Charge/ no. of days in the Year n)\* no. of days in month m

Provided, no Transmission Charges shall be paid during the period for which the RLDC has not allowed the operation of the Element/Project due to the failure of the TSP to operate it as per the provisions of the Grid Code.

### 1.3 RLDC Fee & Charges

The payment of RLDC fee & charges, in accordance with relevant regulations of CERC, shall be the responsibility of the TSP.

Central Transmission Utility of India Limited



PUNE- III TRANSMISSION LIMITED



## Schedule: 5

## Quoted Transmission Charges

[Quoted Transmission Charges from Annexure - 21 of the RFP of the Selected Bidder to be inserted here]

[To be incorporated from the Bid of the Selected Bidder submitted during the e-reverse auction after its selection]

Quoted Transmission Charges: Rs. 5892.41 Million

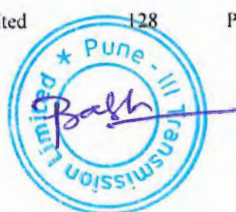
Proportionate Transmission Charges payable for each Element of the Project:

| S. No. | Name of the Transmission Element                                                                                                                           | Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| 1.     | Establishment of 2x1500 MVA, 765/400 kV & 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor. | 29.55%                                                                                               |
| 2.     | Boisar-II – Pune-III 765 kV D/c line                                                                                                                       | 58.60 %                                                                                              |
|        | 2 Nos. of 765 kV line bays at Boisar-II for termination of Boisar-II – Pune-III 765 kV D/c line                                                            |                                                                                                      |
| 3.     | 330 MVAR switchable line reactors at Pune-III end of Boisar-II – Pune-III 765 kV D/c line (with NGR bypass arrangement).                                   |                                                                                                      |
| 4.     | LILO of Narendra (New) – Pune (GIS) 765 kV D/c line at Pune-III                                                                                            | 11.03%                                                                                               |
| 5.     | 330 MVAR switchable line reactors at Pune-III end of Narendra (New) – Pune-III (GIS) 765 kV D/c line (with NGR bypass arrangement).                        |                                                                                                      |
| 6.     | LILO of Hinjewadi-Koyna 400 kV S/c line at Pune-III (GIS) S/s                                                                                              | 0.82 %                                                                                               |
| 7.     | 80 MVAR, 420 kV switchable Line Reactor at Pune-III (GIS) end of Pune-III (GIS) – Koyna 400 kV line formed after above LILO (with NGR bypass arrangement). |                                                                                                      |

Central Transmission Utility of India Limited

128

PUNE-III TRANSMISSION LIMITED





**Schedule: 6****Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024****Procedure for Calculation of Transmission System Availability Factor for a Month**

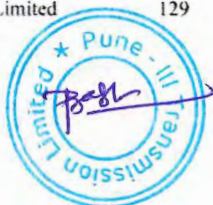
1. Transmission system availability factor for nth calendar month ("TAF<sub>Pn</sub>") shall be calculated by the respective transmission licensee, verified by the concerned Regional Load Dispatch Centre (RLDC) and certified by the Member-Secretary, Regional Power Committee of the region concerned, separately for each AC and HVDC transmission system and grouped according to sharing of transmission charges. In the case of the AC system, transmission System Availability shall be calculated separately for each Regional Transmission System and inter-regional transmission system. In the case of the HVDC system, transmission System Availability shall be calculated on a consolidated basis for all inter-state HVDC systems.
2. Transmission system availability factor for nth calendar month ("TAF<sub>Pn</sub>") shall be calculated by considering the following:
  - i) **AC transmission lines:** Each circuit of AC transmission line shall be considered as one element;
  - ii) **Inter-Connecting Transformers (ICTs):** Each ICT bank (three single- phase transformers together) shall form one element;
  - iii) **Static VAR Compensator (SVC):** SVC, along with SVC transformer, shall form one element;
  - iv) **Bus Reactors or Switchable line reactors:** Each Bus Reactors or Switchable line reactors shall be considered as one element;
  - v) **HVDC Bi-pole links:** Each pole of the HVDC link, along with associated equipment at both ends, shall be considered as one element;
  - vi) **HVDC back-to-back station:** Each block of the HVDC back-to-back station shall be considered as one element. If the associated AC line (necessary for the transfer of inter-regional power through the HVDC back-to-back station) is not available, the HVDC back-to-back station block shall also be considered unavailable;
  - vii) **Static Synchronous Compensation ("STATCOM"):** Each STATCOM shall be considered as a separate element.

3. The Availability of the AC and HVDC portion of the Transmission system shall be calculated

Central Transmission Utility of India Limited

129

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

by considering each category of transmission elements as under:

**TAEPn (in %) for AC system:**

$$\frac{(o \times AV_o) + (p \times AV_p) + (q \times AV_q) + (r \times AV_r) + (u \times AV_u)}{(o + p + q + r + u)} \times 100$$

Where,

|     |                                                                   |
|-----|-------------------------------------------------------------------|
| o   | Total number of AC lines.                                         |
| AVo | Availability of o number of AC lines                              |
| p   | Total number of bus reactors/switchable line reactors             |
| AVp | Availability of p number of bus reactors/switchable line reactors |
| q   | Total number of ICTs                                              |
| AVq | Availability of q number of ICTs                                  |
| r   | Total number of SVCs                                              |
| AVr | Availability of r number of SVCs                                  |
| u   | Total number of STATCOM                                           |
| AVu | Availability of u number of STATCOM                               |

**TAEMn (in %) for HVDC System:**

$$\frac{\sum_{x=1}^s C_{xbp}act \times AV_{xbp} + \sum_{y=1}^t C_{ybtb}act \times AV_{ybtb}}{\sum_{x=1}^s C_{xbp} + \sum_{y=1}^t C_{ybtb}} \times 100$$

Where

|               |   |                                                                                   |
|---------------|---|-----------------------------------------------------------------------------------|
| $C_{xbp}act$  | = | Total actual operated capacity of x <sup>th</sup> HVDC pole                       |
| $C_{xbp}$     | = | Total rated capacity of x <sup>th</sup> HVDC pole                                 |
| $AV_{xbp}$    | = | Availability of x <sup>th</sup> HVDC pole                                         |
| $C_{ybtb}act$ | = | Total actual operated capacity of y <sup>th</sup> HVDC back-to-back station block |
| $C_{ybtb}$    | = | Total rated capacity of y <sup>th</sup> HVDC back-to-back station block           |
| $AV_{ybtb}$   | = | Availability of y <sup>th</sup> HVDC back-to-back station block                   |
| s             | = | Total no of HVDC poles                                                            |
| t             | = | Total no of HVDC Back to Back blocks                                              |



## Transmission Service Agreement

4. The availability for each category of transmission elements shall be calculated based on the weightage factor, total hours under consideration and non-available hours for each element of that category. The formulae for calculation of the Availability of each category of the transmission elements are as per **Appendix-V**. The weightage factor for each category of transmission elements shall be considered as under:
- (a) For each circuit of the AC line – The number of sub-conductors in the line multiplied by ckt-km;
  - (b) For each HVDC pole- The rated MW capacity x ckt-km;
  - (c) For each ICT bank – The rated MVA capacity;
  - (d) For SVC- The rated MVAR capacity (inductive and capacitive);
  - (e) For Bus Reactor/switchable line reactors – The rated MVAR capacity;
  - (f) For HVDC back-to-back stations connecting two Regional grids- Rated MW capacity of each block; and
  - (g) For STATCOM – Total rated MVAR Capacity.
5. The transmission elements under outage due to the following reasons shall be deemed to be available:
- i. Shut down availed for maintenance of another transmission scheme or construction of new element or renovation/upgradation/additional capitalization in an existing system approved by the Commission. If the other transmission scheme belongs to the transmission licensee, the Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved. In case of a dispute regarding deemed availability, the matter may be referred to the Chairperson, CEA, within 30 days.
  - ii. Switching off of a transmission line to restrict over-voltage and manual tripping of switched reactors as per the directions of the concerned RLDC.
  - iii. Shut down of a transmission line due to the Project(s) of NHAI, Railways and Border Road Organization, including for shifting or modification of such transmission line or any other infrastructure project approved by Ministry of Power. Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved; Provided that apart from the deemed availability, any other costs involved in the process of such shutdown of transmission line shall not be borne by the DICs.
- Provided that such deemed availability shall be considered only for the period for which DICs are not affected by the shutdown of such transmission line.



Central Transmission Utility of India Limited

131



PUNE- III TRANSMISSION LIMITED

## TRANSMISSION SERVICE AGREEMENT

6. For the following contingencies, the outage period of transmission elements, as certified by the Member Secretary, RPC, shall be excluded from the total time of the element under the period of consideration for the following contingencies:

- i) Outage of elements due to force majeure events beyond the control of the transmission licensee. However, whether the same outage is due to force majeure (not design failure) will be verified by the Member Secretary, RPC. A reasonable restoration time for the element shall be considered by the Member Secretary, RPC, and any additional time taken by the transmission licensee for restoration of the element beyond the reasonable time shall be treated as outage time attributable to the transmission licensee. Member Secretary, RPC may consult the transmission licensee or any expert for estimation of reasonable restoration time. Circuits restored through ERS (Emergency Restoration System) shall be considered as available;
- ii) Outage caused by grid incident/disturbance not attributable to the transmission licensee, e.g. faults in a substation or bays owned by another agency causing an outage of the transmission licensee's elements, and tripping of lines, ICTs, HVDC, etc., due to grid disturbance. However, if the element is not restored on receipt of direction from RLDC while normalizing the system following grid incident/disturbance within reasonable time, the element will be considered not available for the period of outage after issuance of RLDC's direction for restoration;
- iii) The outage period which can be excluded for the purpose of sub-clause (i) and (ii) of this clause shall be declared as under:
  - a. Maximum up to one month by the Member Secretary, RPC;
  - b. Beyond one month and up to three months after the decision at RPC;
  - c. Beyond three months by the Commission for which the transmission licensee shall approach the Commission along with reasons and steps taken to mitigate the outage and restoration timeline.

7. Time frame for certification of transmission system availability: (1) The following schedule shall be followed for certification of availability by the Member Secretary of the concerned RPC:

- Submission of outage data along with documentary proof (if any) and TAFPN calculation by Transmission Licensees to RLDC/ constituents  
– By the 5th of the following month;
- Review of the outage data by RLDC / constituents and forward the same to respective

Central Transmission Utility of India Limited

132

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

- RPC – by 20th of the month;
- Issue of availability certificate by respective RPC – by the 3rd of the next month.

## Appendix-V

**FORMULAE FOR CALCULATION OF AVAILABILITY OF EACH CATEGORY OF TRANSMISSION ELEMENTS**

For AC transmission system

$$AV_o(\text{Availability of } o \text{ no. of AC lines}) = \frac{\sum_{k=1}^o W_k(T_k - TN_{Ak}) T_k}{\sum_{k=1}^o W_k}$$

$$AV_q(\text{Availability of } q \text{ no. of ICTs}) = \frac{\sum_{k=1}^q W_k(T_k - TN_{Ak}) T_k}{\sum_{k=1}^q W_k}$$

$$AV_r(\text{Availability of } r \text{ no. of SVCs}) = \frac{\sum_{k=1}^r W_k(T_k - TN_{Ak}) T_k}{\sum_{k=1}^r W_k}$$

$$AV_p(\text{Availability of } p \text{ no. of Switched Bus reactors}) = \frac{\sum_{m=1}^p W_m(T_m - TN_{Am}) T_m}{\sum_{m=1}^p W_m}$$

$$AV_u(\text{Availability of } u \text{ no. of STATCOMs}) = \frac{\sum_{n=1}^u W_n(T_n - TN_{An}) T_n}{\sum_{n=1}^u W_n}$$

$$AV_{xpp}(\text{Availability of an individual HVDC pole}) = \frac{(Tx - TN)}{Tx}$$

$AV_{ybb}$  (Availability of an individual HVDC

$$\text{Back-to-back Blocks}) = \frac{(Ty - TN_{Ay})}{Ty}$$

Central Transmission Utility of India Limited

133

PUNE-III TRANSMISSION LIMITED





## Transmission Service Agreement

For the HVDC transmission system

For the new HVDC commissioned but not completed twelve months:

For first 12 months:  $[(AV_{c0} \text{ or } AV_{yxb}) \times 95\% + 55\%]$ , subject to a ceiling of 95%.

Where,

|                      |   |                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| c                    | = | Total number of AC lines:                                                                                                                                                                                                                                                                                                                                                 |
| $AV_c$               | = | Availability of c number of AC lines:                                                                                                                                                                                                                                                                                                                                     |
| p                    | = | Total number of bus reactors switchable line reactors:                                                                                                                                                                                                                                                                                                                    |
| $AV_p$               | = | Availability of p number of bus reactors switchable line reactors:                                                                                                                                                                                                                                                                                                        |
| q                    | = | Total number of ICTs:                                                                                                                                                                                                                                                                                                                                                     |
| $AV_q$               | = | Availability of q number of ICTs:                                                                                                                                                                                                                                                                                                                                         |
| r                    | = | Total number of SVCs:                                                                                                                                                                                                                                                                                                                                                     |
| $AV_r$               | = | Availability of r number of SVCs:                                                                                                                                                                                                                                                                                                                                         |
| U                    | = | Total number of STATCOM:                                                                                                                                                                                                                                                                                                                                                  |
| $AV_u$               | = | Availability of u number of STATCOMs:                                                                                                                                                                                                                                                                                                                                     |
| $W_i$                | = | Weightage factor for $i^{th}$ transmission line:                                                                                                                                                                                                                                                                                                                          |
| $W_k$                | = | Weightage factor for $k^{th}$ ICT:                                                                                                                                                                                                                                                                                                                                        |
| $W_l$                | = | Weightage factors for inductive & capacitive operation of $l^{th}$ SVC:                                                                                                                                                                                                                                                                                                   |
| $W_m$                | = | Weightage factor for $m^{th}$ bus reactor:                                                                                                                                                                                                                                                                                                                                |
| $W_n$                | = | Weightage factor for $n^{th}$ STATCOM                                                                                                                                                                                                                                                                                                                                     |
| $T_i, T_k, T_l$      | = | The total hours of $i^{th}$ AC line, $k^{th}$ ICT, $l^{th}$ SVC, $m^{th}$ Switched Bus Reactor                                                                                                                                                                                                                                                                            |
| $T_m, T_n, T_x, T_y$ | = | & $n^{th}$ STATCOM, $x^{th}$ HVDC pole, $y^{th}$ HVDC back-to-back blocks during the period under consideration (excluding time period for outages not attributed to transmission licensee for the reasons given in Para 5 of the procedure)                                                                                                                              |
| $T_{NAi}, T_{NAk}$   | = | The non-availability hours (excluding the time period for outages not attributable to transmission licensee taken as deemed availability as $T_{NAi}, T_{NAk}, T_{NAx}, T_{NAy}$ per Para 5 of the procedure) for $i^{th}$ AC line, $k^{th}$ ICT, $l^{th}$ SVC, $m^{th}$ Switched Bus Reactor, $n^{th}$ STATCOM, $x^{th}$ HVDC pole and $y^{th}$ HVDC back-to-back block. |



## Transmission Service Agreement

## Schedule: 7

**Entire Bid (both financial bid and technical bid) of the Selected Bidder to be attached here**

Bid dated 19.04.2024 shall be integral part of this agreement.

Central Transmission Utility of India Limited



135

PUNE-III TRANSMISSION LIMITED



## Transmission Service Agreement

## Schedule: 8

## Contract Performance Guarantee

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign entities submitting Bids are required to follow the applicable law in their country.)

In consideration of the PUNE- III TRANSMISSION LIMITED, Urjanidhi, First Floor, Barakhamba Lane- 1, Connaught Place, New Delhi, Central Delhi- 110001, Delhi agreeing to undertake the obligations under the Transmission Service Agreement dated .....and the other RFP Project Documents and the Nodal Agency and the PFC Consulting Limited, agreeing to execute the *RFP Project Documents* with the Selected Bidder, regarding setting up the Project, the ..... [Insert name and address of the bank issuing the guarantee and address of the head office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to ..... (being the Nodal Agency) at .....[Insert the Place from the address of the Nodal Agency indicated in the TSA] forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees ..... Crores (Rs. ....) only [Insert the amount of the bank guarantee] on behalf of PUNE- III TRANSMISSION LIMITED.

This guarantee shall be valid and binding on the Guarantor Bank up to and including .....and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs. .... Crores (Rs. ....) only. Our Guarantee shall remain in force until ..... [Insert the date of validity of the Guarantee as per Article 3.1.2 of this Agreement]. The Nodal Agency, shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from ..... (in its roles as the Nodal Agency),

Central Transmission Utility of India Limited

136

PUNE- III TRANSMISSION LIMITED



## Transmission Service Agreement

made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by ..... [Insert name of the Selected Bidder], ..... [Insert name of the TSP] and / or any other person. The Guarantor Bank shall not require Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against Nodal Agency in respect of any payment made hereunder.

**THIS BANK GUARANTEE** shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

**THIS BANK GUARANTEE** shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

**THIS BANK GUARANTEE** shall be a primary obligation of the Guarantor Bank and accordingly Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against **PUNE- III TRANSMISSION LIMITED** or the Selected Bidder, as the case may be, to make any claim against or any demand on **PUNE- III TRANSMISSION LIMITED** or the Selected Bidder, as the case may be, or to give any notice to **PUNE- III TRANSMISSION LIMITED** or the Selected Bidder, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against **PUNE- III TRANSMISSION LIMITED** or the Selected Bidder, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs. .... Crores (Rs. ....) only and it shall remain in force until .....[Date to be inserted on the basis of Article 3.1.2of the Transmission Service Agreement], with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by **PUNE- III TRANSMISSION LIMITED**. We

Central Transmission Utility of India Limited

137

PUNE- III TRANSMISSION LIMITED



**Transmission Service Agreement**

are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if Nodal Agency serves upon us a written claim or demand.

**In witness where of:**

Signature .....

Name: .....

Power of attorney No.: .....

**For:**

..... [Insert Name of the Bank]

**Banker's Seal and Full Address, including mailing address of the Head Office**

Central Transmission Utility of India Limited



138



PUNE - III TRANSMISSION LIMITED





## Transmission Service Agreement

## Schedule: 9

**Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction Period**

The relief in the form of revision in tariff due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days and/ or Change in Law during the construction period shall be as under:

$$\Delta T = [(P \times d)] \div [1 - (1 + d)^{-n}]$$

Where,

$\Delta T$  = Change in Transmission Charges for each year

P = Sum of cumulative increase or decrease in the cost of the Project due to Change in Law and interest cost during construction corresponding to the period exceeding one hundred eighty (180) due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days

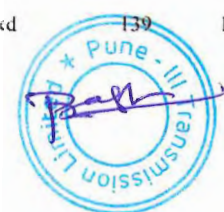
n = number of years over which the Transmission Charges has to be paid

d = Discount rate as notified by the CERC, applicable on the Bid Deadline

The increase in Transmission Charges as stated above shall be applicable only if the value of increase in Transmission Charges as calculated above exceeds 0.30% (zero point three percent) of the quoted Transmission Charges of the TSP.



Central Transmission Utility of India Limited



PUNE - III TRANSMISSION LIMITED



## Annexure A10

## Form-I

**Application Form for Grant of Transmission licence****1. Particulars of the Applicant**

| S No  | Particulars                                       | Details                                                                                                                                             |
|-------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| i.    | Name of the Applicant                             | Pune - III Transmission Limited                                                                                                                     |
| ii.   | Status                                            | Public Limited Company                                                                                                                              |
| iii.  | Address                                           | C 105, Anand Niketan, New Delhi 110021                                                                                                              |
| iv.   | Name, Designation & Address of the Contact Person | Shri Prashant Kumar,<br>Head-Regulatory,<br>Pune - III Transmission Limited, C/o<br>4th Floor South Wing, KP Epitome,<br>Makarba, Ahmedabad, 380051 |
| v.    | Contact Telephone No                              | 9810866555                                                                                                                                          |
| vi.   | Fax No                                            | 079-25556601                                                                                                                                        |
| vii.  | Email ID                                          | <a href="mailto:prashant.kumar1@adani.com">prashant.kumar1@adani.com</a>                                                                            |
| viii. | Place of Incorporation/ Registration              | New Delhi                                                                                                                                           |
| ix.   | Year of Incorporation/ Registration               | 2024                                                                                                                                                |
| x.    | Following documents are to be enclosed            |                                                                                                                                                     |
|       | a) Certificate of Registration                    | Annexure A2                                                                                                                                         |
|       | b) Copy of Board Resolution                       | Annexure A11                                                                                                                                        |

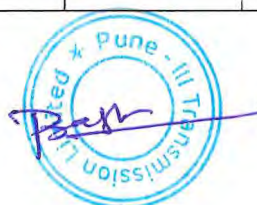
**2. Particulars of the Project for which licence is being sought:**

## a) Transmission Lines:

| S No | Name (end-points Location)                                      | Voltage Class (kV) | Length* (km) | Type (S/C or D/C) |
|------|-----------------------------------------------------------------|--------------------|--------------|-------------------|
| 1    | Boisar-II – Pune-III 765 kV D/C Transmission line               | 765                | 228.2        | D/C               |
| 2    | LILO of Narendra (New) – Pune (GIS) 765 kV D/C line at Pune-III | 765                | 85.610       | D/C               |
| 3    | LILO of Hinjewadi- Koyna 400 kV S/C line at Pune-III (GIS) S/s  | 400                | 8.516        | D/C               |

\*As per survey report

## b) Sub-stations:



| S No | Name (Location) | Voltage Level (s) (kV) | Transformer (Nos. and MVA capacity)             | Reactive/Capacitive compensation (device with MVAR Capacity)                                                                                                                                                                                                                             | No. of bays                                                                                                                                                                                                                                                                                                                              |
|------|-----------------|------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Pune-III (GIS)  | 765/400/220 kV         | 2x1500 MVA, 765/400 kV<br>3x500 MVA, 400/220 kV | <ul style="list-style-type: none"> <li>2x330 MVAR, 765 kV Bus Reactor,</li> <li>2x125 MVAR, 420 kV Bus Reactor</li> <li>80 MVAR, 420kV Switchable Line Reactor (with NGR Bypass Arrangement)</li> <li>4x330 MVAR, 765kV Switchable Line Reactor (with NGR Bypass Arrangement)</li> </ul> | <ul style="list-style-type: none"> <li>2 No. of 765 kV ICT Bays</li> <li>6 no. of 765 kV Line bays</li> <li>2 no. of 765kV Reactor Bays</li> <li>5 no. of 400 kV ICT Bays</li> <li>2 no. of 400 kV Line bays</li> <li>2 no. of 400 kV Reactor Bays</li> <li>3 no. of 220 kV ICT Bays</li> <li>1 no. of 220 kV Bus Coupler Bay</li> </ul> |
| 2    | Boisar-II (GIS) | 765 kV                 | -                                               | -                                                                                                                                                                                                                                                                                        | <ul style="list-style-type: none"> <li>2 no. of 765 kV line bays</li> </ul>                                                                                                                                                                                                                                                              |

## C) Commissioning Schedule:

| Sr. No. | Name of the Transmission Element                                                                                                                                                                | Scheduled COD in months from Effective Date |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 1       | Establishment of 2x1500 MVA, 765/400 kV & 3x500 MVA, 400/220 kV Pune-III (GIS) S/s with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor                                       | 24 months                                   |
| 2       | <ul style="list-style-type: none"> <li>Boisar-II – Pune-III 765 kV D/C line</li> <li>2 Nos. of 765 kV line bays at Boisar-II for termination of Boisar II – Pune-III 765 kV D/C line</li> </ul> |                                             |
| 3       | 330 MVAR switchable line reactors at Pune-III end of Boisar-II Pune-III 765 kV D/C line (with NGR bypass arrangement)                                                                           |                                             |
| 4       | LILO of Narendra (New) – Pune (GIS) 765 kV D/C line at Pune-III                                                                                                                                 |                                             |
| 5       | 330 MVAR switchable line reactors at Pune-III end of Narendra (New) – Pune-III(GIS) 765 kV D/C line (with NGR bypass arrangement)                                                               |                                             |



| Sr. No. | Name of the Transmission Element                                                                                                                          | Scheduled COD in months from Effective Date |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| 6       | LILO of Hinjewadi- Koyna 400 kV S/C line at Pune-III (GIS) S/s                                                                                            |                                             |
| 7       | 80 MVAR, 420 kV switchable Line Reactor at Pune-III (GIS) end of Pune-III (GIS) – Koyna 400 kV line formed after above LILO (with NGR bypass arrangement) |                                             |

d) Identified Long-Term transmission customers of the Project:

1. Central Transmission Utility of India Limited (Nodal Agency)

e) Any other relevant information: Nil

3. Levelised transmission charges in case of project selected through the transparent process of competitive bidding and estimated completion cost of the project in other cases: **Rs 5892.41** million per annum

4. In case applicant has been selected in accordance with the guidelines for competitive bidding, enclose:

(a) Recommendation of selection

by the Empowered Committee

(b) Evaluation report made public by the

Bid Process Coordinator

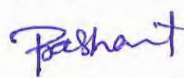


Bid Evaluation Committee  
Certificate as furnished by BPC is  
enclosed as Annexure A6

5. List of documents enclosed:

**Name of the Document**

- a) Certificate of Registration, MOA & A0A: Annexure A3
- b) Copy of Board Resolution: Annexure A11
- c) Bid Evaluation Committee Certificate as furnished by BPC: Annexure A6

  
(Signature of the Applicant)



Date: 22.11.2024

Place: Ahmedabad



## Annexure A11

**CERTIFIED TRUE COPY OF THE RESOLUTION PASSED IN THE MEETING OF THE BOARD OF DIRECTORS OF PUNE- III TRANSMISSION LIMITED ("THE COMPANY") HELD ON WEDNESDAY, 20<sup>TH</sup> NOVEMBER 2024**

**TO MAKE APPLICATION BEFORE CENTRAL ELECTRICITY REGULATORY COMMISSION**

**"RESOLVED THAT** Mr. M. R. Krishna Rao, Mr. Molay Kumar Maitra, Mr. Tanmay Vyas, Mr. Praveen Tamak, Mr. Narendra Ojha, Mr. Bhavesh Kundalia, Mr. Prashant Kumar, Mr. Naresh Desai, Mr. Afak Pothiwala, Mr. Matulya Shah and Mr. Rajesh Sirigirisetty, Mr. Harsh Rana and Ms. Afrin Mankad (hereinafter referred to as Authorised Signatories) be and are hereby severally Authorised to sign and submit petitions, affidavits, agreements, declarations, undertakings, deeds, Bills, submission of details of Bank Accounts or change of Bank Accounts and other documents in connection therewith or incidental thereto before Central Electricity Regulatory Commission (CERC), Appellate Tribunal for Electricity (APTEL), Power Grid Corporation of India Limited (PGCIL), Central Transmission Utility of India Ltd (CTUIL), Power System Operation Corporation Limited (POSOCO), Regional Power Committees and Regional Load Dispatch Centres and other regulatory authorities for and on behalf of the Company.

**RESOLVED FURTHER THAT** Authorised Signatories be and are hereby severally authorised (a) to issue notices, affidavit and other documents, communications to Long Term Transmission Customers and other Parties / agencies, including Central Transmission Utility of India Limited. and WRLDC/SRLDC (b) to file Petition, Affidavit, Notices and other documents before Regulatory Commission or other Electricity body, Appellate Tribunal for Electricity and Supreme Court for issues arising out of Transmission Service Agreement and Bulk Power Transmission Agreement, (c) to engage, appoint or remove any pleaders or advocates, and sign vakalatnamas, power of attorney for such engagement or appointment and (d) to file appeal and defend the interest of the Company."

**Certified True Copy**

For Pune- III Transmission Limited

**SUMEET** Digitally signed by

**SHARMA** SUMEET SHARMA

Sumeet Sharma Date: 2024.11.20 17:15:49 +05'30'

Director

DIN 09232644



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