

**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY
COMMISSION, NEW DELHI**

PETITION NO. _____ OF 2024

IN THE MATTER OF:

Adani Transmission (India) Limited

...PETITIONER

VERSUS

Power Grid Corporation of

India Limited & Ors.

...RESPONDENTS

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Bashant Kumar
Petitioner

Place: Ahmedabad

Date: 21.11.2024

**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY
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PETITION NO. _____ OF 2024

IN THE MATTER OF:

Approval under Regulation 23 of the CERC (Conduct of Business) Regulations, 2023 based on CERC (Terms and Conditions of Tariff) Regulations, 2019 & CERC (Terms and Conditions of Tariff) Regulations, 2024 for Truing-up of Transmission Tariff for the period from 01-April-2019 to 31-March-2024 & Determination of tariff for the period from 01-April-2024 to 31-March-2029 for Transmission system constructed, maintained and operated by Adani Transmission (India) Limited vide Licence No. 20/Transmission/2013/CERC

AND

IN THE MATTER OF:

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MEMO OF PARTIES

Adani Transmission (India) Limited

(earlier in the name of Adani Power Limited)



Adani Corporate House, Shantigram,
Near Vaishno Devi Circle, S. G. Highway,
Ahmedabad, 382421

.....PETITIONER

Versus

1. Central Transmission Utility of India Limited,
Plot No. 2, Near IFFCO Chowk Metro Station,
Sector 29, Gurugram-122001
2. Power Grid Corporation of India Limited
Saudamini, Plot-2, Sector-29,
Near IFFCO Chowk,
Gurgaon-122001, Haryana
3. National Load Dispatch Centre
B-9, Qutab Industrial Area, Katwaria Sarai,
New Delhi-110 016
4. Northern Regional Load Despatch Centre,
18-A, Shaheed Jeet Singh Sansanwal Marg,
Katwaria Sarai, New Delhi-110 016
5. Western Regional Power Committee,
F-3, MIDC Area, Marol, Opp. SEEPZ,
Central Road, Andheri (East), Mumbai-400093
6. Central Electricity Authority,
Sewa Bhawan, Sector-1,



R.K. Puram, New Delhi-110 066

7. Gujarat Energy Transmission Company Limited,
Sardar Patel Vidyut Bhavan, Race Course,
Vadodra-390 007
8. Haryana Vidyut Prasaran Nigam Limited,
1st Floor, Shakti Bhawan, Sector-6,
PanchKula-134 109, Haryana
9. Gujarat Urja Vikas Nigam Limited,
Sardar Patel Vidyut Bhawan, Race Course,
Vadodra-390 007
10. Maharashtra State Electricity Distribution Co. Limited,
"Prakashgarh", Bandra (East),
Mumbai-400051, Maharashtra
11. Madhya Pradesh Power Management Company Limited,
Shakti Bhawan, Vidyut Nagar, Rampur,
Jabalpur (MP)-482 008
12. M.P. Audyokik Kendra Vikas Nigam Limited,
Free Press House, 1st Floor, 3/54-Press Complex,
A. B. road, Indore-452 008, Madhya Pradesh
13. Chhattisgarh State Power Distribution Company Limited,
Vidyut Seva Bhawan Parisar, Dangania,
Raipur-492 013, Chhattisgarh



14. Goa State Electricity Department,
Vidyut Bhawan, Panaji, Goa-403 001
15. Daman and Diu Electricity Department,
Administration of Daman & Diu,
Near Satya Narayan Temple,
Nani Daman-396 210
16. Electricity Department,
Administration of Dadra Nagar Haveli,
Dadra Nagar Haveli UT, Silvassa-396 230
17. Heavy water Projects, Department of Atomic Energy,
Heavy Water Board, Vikram Sarabhai Bhawan,
Anushakti Nagar, Mumbai-400 094
18. Jindal Power Limited,
Tamnar, Raigarh, Chattisgarh-496 001
19. Torrent Power Limited,
Torrent House, Opp. Ashram Road,
Ahmedabad-380009
20. PTC India Ltd.
2nd Floor, NBCC Tower,
15, Bhikaji Complex,
New Delhi-110066



21. Haryana Power Purchase Centre,
Shakti Bhawan, Sector-6,
Panchkula, (Haryana)-134 109
22. Rajasthan Power Procurement Centre,
Room No. 24, Vidyut Bhawan, Janpath,
Jyoti Nagar, Jaipur- 302 005, Rajasthan
23. Jodhpur Vidyut Vitran Nigam Limited,
New Power House Industrial Area,
Jodhpur-342 003, Rajasthan
24. Jaipur Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Janpath, Jyoti Nagar, Jyoti Marg,
Jaipur-302 005, Rajasthan
25. Ajmer Vidyut Vitran Nigam Limited,
Old Power House, Hathi Bhatta,
Jaipur Road, Ajmer-305 001, Rajasthan
26. BSES Yamuna Power Limited,
Shakti Kiran Building, Karkardooma,
Delhi-110 092
27. BSES Rajdhani Power Limited,
BSES Bhawan, Nehru Place,
New Delhi-110 019



28. Tata Power Delhi Distribution Limited,
Cennet Building, 33 kV Substation Building,
Hudson Lines, Kingsway Camp, Delhi-110 009

29. New Delhi Municipal Council,
Palika Kendra Building, Opposite Jantar Mantra,
Parliament Street, New Delhi-110 001

30. Uttarakhand Power Corporation Limited,
Urja Bhawan, Kanwali Road,
Dehradun-248 001

31. Uttar Pradesh Power Corporation Limited,
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226 001, UP

32. North Central Railway,
Allahabad, Uttar Pradesh

33. Punjab State Power Corporation Limited,
The Mall, Ablowal, Patiala-147 001

34. Power Development Department,
Jammu and Kashmir,
Civil Secretariat, Jammu-180 001

35. Himachal Pradesh State Electricity Board,
Vidyut Bhawan, Shimla-171 004



36. Electricity Department UT Chandigarh,
Sector-9, Chandigarh

37. Northern Regional Power Committee,
18-A, Qutab Institutional Area,
Shaheed Jeet Singh Marg, Katwaria Sarai,
New Delhi-110 016

38. Western Regional Power Committee,
F-3, M.I.D.C. Area, Marol,
Andheri 9East), Mumbai-400 093

39. Kanpur Electricity Supply Company Limited (NR),
14/71, Civil Lines, Kanpur-208 001

40. Rajasthan Rajya Vidyut Prasaran Nigam Limited,
Vidyut Bhawan, Vidyut Marg,
Jaipur- 302 005

41. Delhi Transco Limited,
Shakti Sadan, Kotla Road,
New Delhi-110 002

.....RESPONDENTS


Petitioner

Place: Ahmedabad

Date: 21.11.2024



S. No. 8961/2024

VIJAY C. SHAH

NOTARY

GOVT. OF INDIA

21 NOV 2024

BEFORE

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IN THE MATTER OF:

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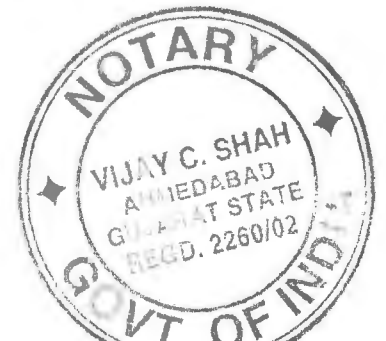
VERSUS

Power Grid Corporation of India Limited and Ors.

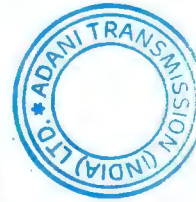
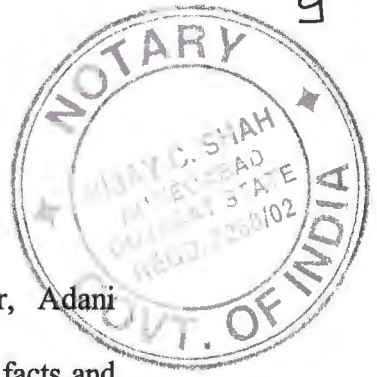
.....RESPONDENTS

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, Adani Transmission (India) 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 Adani Transmission (India) 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

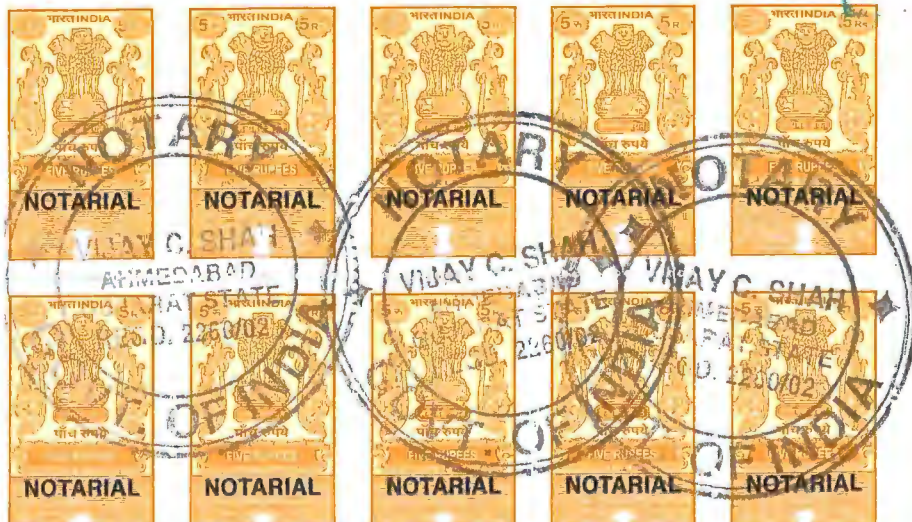
I, **Prashant Kumar**, the above named deponent do hereby verify that the contents of this affidavit are true and correct to the best of my knowledge and belief, no part of it is false and nothing material has been concealed therefrom.

Verified by me on this November, 2024, at Ahmedabad



Prashant Kumar

DEPONENT



SOLEMNLY AFFIRMED
BEFORE ME

21
VIJAY C. SHAH
NOTARY
GOVT. OF INDIA.

21 NOV 2024

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IN THE MATTER OF:

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**PETITION FOR TRUING UP OF TRANSMISSION TARIFF FOR THE
PERIOD FROM 01-APRIL-2019 TO 31-MARCH-2024 AND
DETERMINATION OF TARIFF FOR THE PERIOD FROM 01-APRIL-
2024 TO 31-MARCH-2029**

MOST RESPECTFULLY SHEWETH:



1. Adani Transmission (India) Limited (earlier in the name of Adani Power Limited) (hereinafter referred to as 'ATIL' / 'Petitioner') is a company incorporated under the provisions of the Companies Act, 1956 and is engaged in the business of transmission of power.
2. The Respondent No. 1 Central Transmission Utility of India Limited ("CTUIL") is a wholly owned subsidiary of PGCIL (Respondent No.2) established as separate company to undertake function of a Central Transmission Utility in terms of Section 38 of the Electricity Act, 2003 vide Gazette Notification by the Ministry of Power dated 09.03.2021. CTUIL performs the functions of planning and coordinating development of the inter-state transmission systems projects under Section 38 of the Act. It is also the statutory authority responsible for billing and collecting the transmission charges pertaining to the ISTS network in terms of the Regulations framed by this Hon'ble Commission. The Respondent Nos. 3 to 5 are the authorities which are engaged with optimum functioning of the Inter-State grid. Respondent No. 6 is the authority which is involved in planning, construction and coordination of the interstate transmission system. The Respondent Nos. 7 to 41 are the stakeholders in the Inter-State transmission system, which have to share the cost of the transmission system of the Petitioner.
3. The Petitioner is filing the present petition seeking approval under Regulation 23 of the CERC (Conduct of Business) Regulations, 2023 based on CERC (Terms and Conditions of Tariff) Regulations, 2019 & CERC (Terms and Conditions of Tariff) Regulations, 2024 for Truing-up of Transmission Tariff for the period from 01-April-2019 to 31-March-2024 & Determination of tariff for the period from 01-April-2024 to 31-March-2029.
4. It is stated that M/s Adani Power Limited (APL) has set up a 4620 MW



power plant comprising of four subcritical units of 330 MW and five supercritical units of 660 MW at Mundra, Kutch District, Gujarat (Mundra Power Project). In order to evacuate power from Mundra Power Project to Northern Region (NR) and Western Region (WR), APL implemented transmission system consisting of (i) $\pm 500\text{kV}$ bipole Mundra - Mohindergarh HVDC Transmission Line including associated 400kV lines, terminal substations & bays and (ii) 400kV D/c Mundra - Dehgam Transmission Line including associated system. Thereafter, APL sought a transmission licence from this Hon'ble Commission vide its application dated 21.02.2012. The Hon'ble Commission granted a Transmission Licence No. 20/ Transmission/ 2013/ CERC dated 29.07.2013 for the transmission system implemented by APL. The same was assigned to ATIL (Petitioner) subsequent to approval of various authorities including the Hon'ble Commission.

5. The abovementioned transmission system connects the ISTS of Western Region (WR) and Northern Region (NR), in Gujarat and Haryana respectively. Transmission Licence No. 20/ Transmission/ 2013/ CERC dated 29.07.2013 for the above mentioned Transmission system was granted to Adani Power Limited, which was subsequently assigned to the Petitioner ATIL vide this Hon'ble Commission's Order dated 08.01.2015.
6. Subsequent to grant of license, the Petitioner filed a petition for determination of tariff on 05.09.2013 for the FY 2013-14. The said petition was numbered as Petition No. 184/TT/2013. The Hon'ble Commission issued final order dated 18.03.2016 in the said petition.
7. The Petitioner then filed the petition for truing up for FY 2013-14 and for determination of transmission tariff for the tariff block pertaining to FY 2014-15 to FY 2018-19. The said petition was numbered as Petition No. 146/TT/2016. The Hon'ble Commission issued the final order dated



03.11.2017 in the said Petition,

8. Subsequently, the Petitioner filed the Petition for truing up of tariff for the tariff block pertaining to FY 2014-15 to FY 2018-19 and tariff determination for the tariff block from FY 2019-20 to FY 2023-24. The said petition was numbered as Petition No. 216/TT/2020. The Hon'ble Commission issued the final order dated 21.01.2022 in the said Petition.
9. Meanwhile, MoP vide its Office Memorandum dated 30.01.2019 requested the Petitioner to take necessary actions under compressed timeline for constructing 12 ohm Series Line Reactor in Mohindergarh – Dhanonda 400 kV D/C line ckt I & II at Mohindergarh end. Accordingly, the Petitioner approached this Hon'ble Commission vide Petition No. 118/TL/2019 to amend the Transmission License of the Petitioner and include 12 ohm series line reactor in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I and Circuit-II at Mohindergarh end. This Hon'ble Commission vide its order dated 07.10.2019 in Petition No. 118/TL/2019 amended the License No. 20/Transmission/2013/CERC of Petitioner and included the 12 ohm series line reactor in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I and Circuit-II at Mohindergarh end. Subsequently, the 12 ohm series line reactor commissioned on 30.03.2022 and Petitioner filed tariff determination petition for 12 ohm series line reactor for the control period of FY 2021-22 to FY 2023-24 vide Petition No. 13/TT/2023. This Hon'ble Commission vide its order dated 29.03.2024 in Petition No. 13/TT/2023 approved the tariff for 12 ohm series line reactor for the tariff block FY 2021-22 to FY 2023-24.
10. It is stated that the present petition involves three sets of assets. First set is to evacuate power from the Mundra Power Project to Northern Region (NR), being transmission system consisting of (i) $\pm 500\text{kV}$ bipole Mundra - Mohindergarh HVDC Transmission Line including associated 400kV lines,



terminal substations & bays (collectively referred as "Asset I"), second set is to evacuated power from Mundra Power Project to Western Region (WR), being transmission system consisting of 400kV D/c Mundra – Dehgam Transmission Line including associated system (collectively referred as "Asset II") and third set is 12 ohm Series Line Reactor in Mohindergarh – Dhanonda 400 kV D/C line ckt I & II at Mohindergarh end (collectively referred as "Asset III"). The Petitioner submits herein below the details of the Transmission Assets under Licence:

Particulars	Asset I	Asset II	Asset III
AC system			
Transmission Line	• 400 kV D/C Mohindergarh – Dhanonda • 400 kV D/C Mohindergarh - Bhiwani	• 400 kV D/C Mundra – Sami - Dehgam	
Substations	• Substations at Mundra & Mohindergarh • Bays at Bhiwani (PG) Substation	• Substations at Mundra & Sami • Bays at Dehgam (PG) substation	• 12 ohm Series Line Reactor in Mohindergarh – Dhanonda 400 kV D/C line ckt I & II at Mohindergarh end



Particulars	Asset I	Asset II	Asset III
HVDC System			
Transmission Line	• $\pm$ 500 kV Bipole Mundra – Mohindergarh HVDC line • 33 kV D/C Electrode lines for HVDC Mundra and Mohindergarh Terminal Stations		
Substation	• HVDC Terminal Stations at Mundra & Mohindergarh		

11. The Hon'ble Commission approved the Transmission tariff of the Petitioner for the Tariff period from FY 2019-20 to FY 2023-24 for Asset – I & II vide Order dated 21.01.2022 in Petition No. 216/TT/2020 and for Asset – III vide Order dated 29.03.2024 in Petition No. 13/TT/2023. A copy of the aforesaid orders in Petition no. 216/TT/2020 & Petition No. 13/TT/2023 are annexed herewith and marked as **Annexure-1**.

12. It is stated that tariff approved by the Hon'ble Commission for the period



from FY 2019-20 to FY 2023-24 is as under:

(Rs. In lakh)

Asset - I					
Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Depreciation	19,730.17	19,733.34	19,733.34	19,733.34	19,733.34
Interest on Loan	16,352.68	13,946.59	11,535.18	9,123.76	6,712.35
Return on Equity	21,833.91	21,837.29	21,837.29	21,837.29	21,837.29
Interest on Working Capital	1,055.51	959.18	868.62	843.06	815.71
O&M Expenses	4,234.57	4,383.42	4,537.53	4,697.52	4,861.15
Total	63,206.84	60,859.83	58,511.96	56,234.98	53,959.84

(Rs. In lakh)

Asset - II					
Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Depreciation	2,793.33	2,793.33	830.89	830.89	830.89



Interest on Loan	1,403.90	1,062.55	841.11	739.58	638.04
Return on Equity	3,047.74	3,047.74	3,047.74	3,047.74	3,047.74
Interest on Working Capital	145.79	32.70	96.26	96.13	95.84
O&M Expenses	845.32	875.05	905.79	937.51	970.28
Total	8,236.07	7,911.37	5,721.79	5,651.85	5,582.80

(Rs. In lakh)

Asset - III					
Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Depreciation	-	-	1.26	244.41	259.41
Interest on Loan	-	-	1.53	286.75	281.87
Return on Equity	-	-	1.34	260.83	276.83
Interest on Working Capital	-	-	0.05	10.39	12.25



O&M Expenses	-	-	-	-	-
Total	-	-	4.19	802.37	830.36

13. The present petition for True-up is being filed in accordance with Regulation 13 of the CERC (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as "Tariff Regulations 2019") for truing up of FY 2019-20 to FY 2023-24 based on actual additional capital expenditure and for determination of tariff for the control period from FY 2024-25 to FY 2028-29 as per Regulation 8, 9 & 10 of the CERC (Terms and Conditions of Tariff) Regulations, 2024 (hereinafter referred to as "Tariff Regulations, 2024") considering the approved capital cost including additional capital expenditure as on 31.03.2024 and estimated additional capitalization from 01.04.2024 to 31.03.2029.
14. The application for true-up and determination of the tariff is being made in accordance with Regulation 23 of CERC (Conduct of Business) Regulation, 2023. Further, Regulation 9 (2) of Tariff Regulation, 2024 specifies that existing transmission licences shall make application by 30.11.2024. Hence, the present application is filed within the timeline.
15. The Hon'ble Commission has admitted total capital cost of Rs. 387,437 Lakh for Asset-I as on 01.04.2019 & Rs. 54,090 Lakh for Asset-II as on 01.04.2019. Accordingly, the Hon'ble Commission had determined tariff for FY 2019-20 to FY 2023-24 considering admitted capital cost and estimated additional capitalisation from 01.04.2019 to 31.03.2024.
16. Further, the Hon'ble Commission has admitted the capital cost of Rs. 4,344.89 Lakh as on 30.03.2022 (CoD) for Asset-III. Accordingly, the



Hon'ble Commission had determined tariff for FY 2021-22 to FY 2023-24 considering admitted capital cost and estimated additional capitalisation from 30.03.2022 to 31.03.2024

17. Based on the above facts, the Petitioner is filing the present Petition for truing-up of Transmission tariff for FY 2019-20 to FY 2023-24 and determination of tariff for the tariff block from FY 2024-25 to FY 2028-29 along with requisite information and details in the formats specified by the Hon'ble Commission as per Tariff Regulations, 2019 and Tariff Regulations, 2024 respectively.

True Up of Tariff for the tariff period 2019-24 (from 01.04.2019 to 31.03.2024)

18. Regulation 9 (3) of the tariff Regulation, 2019 stipulates that capital cost admitted by the commission as on 01.04.2019 duly trued up by excluding liability, if any, as on 01.04.2019 shall be considered. The relevant portion is as under:

“(3) The Capital cost of an existing project shall include the following:

(a) Capital cost admitted by the Commission prior to 1.4.2019 duly trued up by excluding liability, if any, as on 1.4.2019;”

Accordingly, the Petitioner has considered the actual admitted capital cost as on 01.04.2019 in line with the Hon'ble Commission's order dated 21.01.2022 in Petition No. 216/TT/2020 for Asset – I & II without prejudice to its right under Appeal No. 9/2023 filed against this Hon'ble Commission's order dated 21.01.2022.

19. The Hon'ble Commission in its order dated 21.01.2022 approved the capital cost of Rs. 387,437 Lakhs for Asset I and Rs. 54,090 Lakhs for Asset II as on 31.03.2019. Summary of Capital cost approved by Hon'ble Commission



is as under:

(Rs. In Lakhs)

Particulars	Asset I	Asset II
Capital Cost as on 31.03.2014	370,083.06	540,89.69
Additional Capital Expenditure	17,354.00	-
Capital Cost as on 01.04.2019	387,437.06	54,089.69

20. Further, regulation 9 (2) of the Tariff Regulation, 2019 stipulates consideration of Capital Cost as on CoD. Accordingly, the Petitioner had submitted the details of Capital Cost as on CoD (30.03.2022) in Petition No. 13/TT/2023 for Asset – III. The details of Capital Cost submitted by the Petitioner for Asset-III is as under:

(Rs. In Lakhs)

Particulars	Asset III
Capital Cost as on CoD (30.03.2022)	4,509.45

However, Hon'ble Commission vide order dated 29.03.2024 in Petition No. 13/TT/2023 has allowed following Capital Cost:



Particulars	Asset III
Capital Cost as on CoD (30.03.2022)	4,344.89

The Disallowance of Capital Cost by the Hon'ble Commission is to the extent of disallowance of interest rate of 13.25% for computation of IDC. The Hon'ble Commission allowed interest rate of 9.20% for computation of IDC instead of interest rate of 13.25% as claimed by the Petitioner. Aggrieved by the same, the Petitioner has filed an Appeal No. 270/2024 before the Hon'ble APTEL which is pending for adjudication. Accordingly, the Petitioner has considered Rs. 4,509.45 as the Capital Cost on CoD for Asset – III. The Auditor's Certificate for the same is also attached as **Annexure-2**.

Additional Capital Expenditure

Asset - I

21. The Petitioner has claimed following additional expenditure for the Control period from FY 2019-20 to FY 2023-24.

Sr. No	Year	Amount capitalised / proposed to be capitalised (Rs. Lakhs)	Justification
1	FY 2019-20	9	Installation of CCTV Camera in HVDC Valve Halls
2		4	Golf Cart



Sr. No	Year	Amount capitalised / proposed to be capitalised (Rs. Lakhs)	Justification
3	FY 2020-21	26	Upgradation of SCADA system
4		3	Digital Energy Meter
5	FY 2021-22	58	Construction of Open Store Yard
6		19	Store Development at Mohindergarh Side
7		28	Upgradation of SCADA system
8		117	Online Dissolved Gas Analysis equipment
9	FY 2022-23	7	Construction of parking area HVDC Mundra
10		93	Upgradation of SCADA system
11		295	Online Dissolved Gas Analysis equipment
12		79	Silicon coating of the high voltage equipment.
13		92	Spare Insulators for meeting contingency



Sr. No	Year	Amount capitalised / proposed to be capitalised (Rs. Lakhs)	Justification
14		114	Upgradation of On Load Tap Changers (OLTC)
15	FY	14	Security room upgrade
16	2023-24	2	Upgrading FF system with lesser corrosion
17		20	Solar lights for better visibility and environment friendly.

22. The Petitioner has claimed the above-mentioned additional capitalisation for the control period of FY 2019-20 to FY 2023-24 in the present petition. Further, the reasoning/justification for above claim are:

- a) Installation of CCTV Camera in HVDC Valve Halls: HVDC Valve halls are covering 400 kV AC to 500 kV DC and hence are operating at a very high temperature of more than 90 deg C. Hence visibility to Valve Hall during the time when system is live is not possible. At times, there has been water leakage in the Valve cooling system of Valve hall but the same can only be seen by shutting down the pole. Installing CCTV inside the valve hall helps in visibility of the valve hall equipment even during live stage and hence helps in better analysing the issues inside and prevent unwanted outages.
- b) Upgradation of SCADA system: The Petitioner has installed SCADA



system for the purpose of control and protection of the sub-station and associated transmission line. The SCADA system is in service since 2010, and substation automation system software is based on Windows-XP. As of now, the system is obsolete and support to cater to the various problems is not possible to maintain reliable grid operation. Further, Microsoft has stopped the Operating System support for Windows XP. Therefore, requirement of upgradation from existing version to new version is necessary to overcome following challenges:

- i. Obsolete Version of PACIS SCADA Application for SAS and hence, there are problem in getting proper support on the same.
- ii. Repeated hanging of Server application and auto-restart
- iii. Frequent hanging of OWS.
- iv. Hanging of BCU application
- v. BCU reports hardware auto-re-closure fault.
- vi. Communication issue of 40 platform relay with configuration tools.
- vii. Communication issue of 30 platform relays with existing SCADA
- viii. Re-configuration of certain special logics e.g. Automatic setting group change logic, CB Negative supply interruption scheme.
- ix. Fixing of Bugs and Improvisation of feature & performance in upgraded version of SCADA software
- x. Obsolete support for the Windows XP operating System from Microsoft.
- xi. Cyber Security
- xii. Frequent network disturbances like disconnection of IEDs

Further, the Hon'ble Commission has already approved the Additional Capitalisation towards upgradation of SCADA system for the Petitioner



vide order dated 21.01.2022 in Petition No. 216/TT/2020 subject to final truing up.

- c) Construction of Open Store Yard: Open Store yard is used to effectively maintain the critical spares Series reactor, CT, Circuit Breakers, etc.
- d) Online Dissolved Gas Analysis equipment: Healthiness of Critical assets (Transformers and Reactors) are essential to maintain availability and reliability of assets. With complexity in Power system network, new diagnostic technologies are essential to monitor the real time healthiness of equipment. Dissolve Gas Analysis is one such method to identify the incipient fault inside the asset. However, periodic offline measurements do not serve the purpose of identification of incipient faults. Online DGA serves the purpose perfectly with real time gas monitoring and any gas rise shall alert the operator for necessary corrective actions. This is a proven method and has saved large number of assets across the globe by primary identification of failure. This will increase the reliability of critical assets and conscious decision making can be done well in time. Further, critical assets will be more safe and secure as this shall prevent transformer/reactor failure in the incipient stage of fire.
- e) Silicon coating of the high voltage equipment: Corrosion and pollution of outdoor high voltage insulators is a common problem for utilities, with a considerable impact to power system reliability. A possible outage in a high voltage system usually corresponds to a severe impact to the power system. To prevent the possible flashovers due to corrosion and pollution, high voltage insulation coating is done, aiming to improve the insulation performance, either by suppressing the formation of surface conductivity or by increasing the possible insulation level. Since the Petitioner's HVDC lines are in coastal area,



there are issues of corrosion and subsequent failures of insulators and, hence, the Petitioner has carried out the silicon painting in HVDC substation equipment to avoid tripping due to dust and corrosion.

- f) Spare Insulators for meeting contingency: Insulators have been purchased for meeting contingency.
- g) Upgradation of On Load Tap Changers (OLTC): Existing OLTC is of 2 vacuum chambers while the new design OLTC are of 4 vacuum chambers leading to better reliability and longer service life. Accordingly, OLTC has been upgraded.

23. The Petitioner request the Hon'ble Commission to admit the above Additional Capital Expenditure under applicable Tariff Regulation, 2019.

Asset - II

24. The Petitioner has claimed following additional expenditure for the Control period from FY 2019-20 to FY 2023-24.

Sr. No	Year	Amount capitalised / proposed to be capitalised (Rs. Lakh)	Justification
1	FY	29	CT Analyser Test Kit
2	2021-22	56	Travelling wave fault locator (TWFL)
3	FY	22	Upgradation of SCADA system
4	2022-	59	Online Dissolved Gas Analysis



Sr. No	Year	Amount capitalised / proposed to be capitalised (Rs. Lakh)	Justification
	23		equipment
5		31	Controlled Switching Device (CSD) installation in Bus Reactor
6		82	Silicon coating of the high voltage equipment.
7		16	Online Drying Unit (ODU)

25. The Petitioner has claimed the above mentioned additional capitalisation for the control period of FY 2019-20 to FY 2023-24 in the present petition. Further, the reasoning/justification for above claim are:

- a) CT Analyser Test Kit: To analyse the healthiness of installed current Transformers.
- b) Travelling wave fault locator (TWFL): Faults in the Transmission lines are not easy to identify due to various changes in the tower footing resistance and arc resistance. One effective way to analyse the faults in the Transmission system is through TWFL. The system pinpoints the fault location leading to faster restoration and thereby enhancing the availability and reliability of the Transmission system.
- c) Upgradation of SCADA system: The Petitioner has installed SCADA



system for the purpose of control and protection of the sub-station and associated transmission line. The SCADA system is in service since 2010, and substation automation system software is based on Windows-XP. As of now, the system is obsolete and support to cater to the various problems is not possible to maintain reliable grid operation. Further, Microsoft has stopped the Operating System support for Windows XP. Therefore, requirement of upgradation from existing version to new version is necessary to overcome following challenges:

- i. Obsolete Version of PACIS SCADA Application for SAS and hence, there are problem in getting proper support on the same.
- ii. Repeated hanging of Server application and auto-restart
- iii. Frequent hanging of OWS.
- iv. Hanging of BCU application
- v. BCU reports hardware auto-re-closure fault.
- vi. Communication issue of 40 platform relay with configuration tools.
- vii. Communication issue of 30 platform relays with existing SCADA
- viii. Re-configuration of certain special logics e.g. Automatic setting group change logic, CB Negative supply interruption scheme.
- ix. Fixing of Bugs and Improvisation of feature & performance in upgraded version of SCADA software
- x. Obsolete support for the Windows XP operating System from Microsoft.
- xi. Cyber Security
- xii. Frequent network disturbances like disconnection of IEDs

Further, the Hon'ble Commission has already approved the Additional Capitalisation towards upgradation of SCADA system for the Petitioner



vide order dated 21.01.2022 in Petition No. 216/TT/2020 subject to final truing up.

- d) Online Dissolved Gas Analysis equipment: Healthiness of Critical assets (Transformers and Reactors) are essential to maintain availability and reliability of assets. With complexity in Power system network, new diagnostic technologies are essential to monitor the real time healthiness of equipment. Dissolve Gas Analysis is one such method to identify the incipient fault inside the asset. However, periodic offline measurements do not serve the purpose of identification of incipient faults. Online DGA serves the purpose perfectly with real time gas monitoring and any gas rise shall alert the operator for necessary corrective actions. This is a proven method and has saved large number of assets across the globe by primary identification of failure. This will increase the reliability of critical assets and conscious decision making can be done well in time. Further, critical assets will be more safe and secure as this shall prevent transformer/reactor failure in the incipient stage of fire.
- e) Silicon coating of the high voltage equipment: Corrosion and pollution of outdoor high voltage insulators is a common problem for utilities, with a considerable impact to power system reliability. A possible outage in a high voltage system usually corresponds to a severe impact to the power system. To prevent the possible flashovers due to corrosion and pollution, high voltage insulation coating is done, aiming to improve the insulation performance, either by suppressing the formation of surface conductivity or by increasing the possible insulation level. Since the Petitioner's HVDC lines are in coastal area, there are issues of corrosion and subsequent failures of insulators and, hence, the Petitioner has carried out the silicon painting in HVDC



substation equipment to avoid tripping due to dust and corrosion.

f) Controlled Switching Device (CSD) installation in Bus Reactor:

Controlled Switching device is an effective method to identify the zero crossing of AC system and prevents the Transformers and reactors to get stressed due to AC voltage peaks.

g) Online Drying Unit (ODU): Healthiness of Critical assets

(Transformers and Reactors) are essential to maintain availability and reliability of assets. With complexity in Power system network, new diagnostic technologies are essential to monitor the real time healthiness of equipment. Online drying unit system is essential to reduce the moisture content in the installed units and hence, increases the life of Critical assets and prevents failure.

26. The Petitioner request the Hon'ble Commission to admit the above Additional Capital Expenditure under applicable Tariff Regulation, 2019.

Asset - III

27. The Petitioner has claimed following additional expenditure for remaining years of Control period from FY 2021-22 to FY 2023-24.

Sr. No	Year	Amount capitalised / proposed to be capitalised (Rs. Lakhs)	Justification
1	FY 2022-23	440	Undischarged liability towards substation equipment discharged



Sr. No	Year	Amount capitalised / proposed to be capitalised (Rs. Lakhs)	Justification
2		171	Undischarged IDC discharged

28. The Petitioner request the Hon'ble Commission to admit the above Additional Capital Expenditure under applicable clause of Regulation 24(1) of Tariff Regulation, 2019.
29. Copy of carved out Audited Financials for CERC licenced business of ATIL from FY 2019-20 to FY 2023-24 are marked and attached as **Annexure 3**.

Depreciation

30. The Petitioner has calculated the depreciation charges for FY 2019-20 to FY 2023-24 as prescribed in the Regulations 33 of CERC (Terms & Conditions of Tariff) Regulations, 2019.

Interest on Loan

31. Interest on loan is calculated for FY 2019-20 to FY 2023-24 as prescribed in Regulations 32 of CERC (Terms & Conditions of Tariff) Regulations, 2019. The Petitioner has considered the actual loan portfolio for the purpose of deriving actual weighted average interest rates during FY 2019-20 to FY 2023-24. The repayment is considered equal to the depreciation for the year. The calculation of Weighted Average interest rate based on actual loan portfolio is attached herewith as Form 9C of True up formats.
32. A copy of Statutory Auditor's certificate certifying the Weighted Average interest rate based on the actual loan portfolio for FY 2019-20 to FY 2023-



24 is attached as **Annexure-4**.

33. It is to be noted that this Hon'ble Commission vide order dated 21.01.2022 in Petition No. 216/TT/2020 had not considered the ICD loan in Weighted Average Rate of Interest for the control period of FY 2019-20 to FY 2023-24. Aggrieved by the same, the Petitioner had filed Appeal No. 9/2023 against the order dated 21.01.2022 in Petition No. 216/TT/2020. The Hon'ble APTEL vide its judgment dated 18.11.2024 has allowed Weighted Average Rate of Interest which includes the loan availed through ICD. The relevant extract of the judgment dated 18.11.2024 in Appeal No. 9/2023 is as under:

*"62. Hence, we set aside the findings of the Commission on this issue and allow the claim of the appellant by holding that **the Weighted Average Rate of Interest (WAROI) shall be calculated on the basis of actual loan portfolio of the appellant which also includes the loan availed through ICD.**"*

Accordingly, we request this Hon'ble Commission to allow the Weighted Average Rate of Interest of 13.25% for the control period of FY 2019-20 to FY 2023-24. We have attached the copy of APTEL judgment dated 18.11.2023 in Appeal No. 9/2023 as **Annexure-5**.

Return on Equity

34. The Petitioner submits that it is liable to pay income tax at MAT rate, and as such, the ROE has been calculated after grossing up the ROE to the extent of MAT rate for the control period. As per the Regulations 30 of CERC (Terms & Conditions of Tariff) Regulations, 2019 applicable for FY 2019-20 to FY 2023-24, the Return on equity is considered @ 15.5% per annum. The same is grossed up with applicable tax rate to arrive at Pre-tax ROE.
35. The Applicable MAT rate was 17.472% considering 12% surcharge and 4% education cess on MAT rate of 15% for FY 2019-20 to FY 2023-24.



Accordingly, the Petitioner has considered the applicable Tax rate for FY 2019-20 to FY 2023-24. The applicable tax rate and resultant ROE is shown in table below for ready reference.

Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
MAT rate	17.472%	17.472%	17.472%	17.472%	17.472%
ROE	18.78%	18.78%	18.78%	18.78%	18.78%

O&M Expenses

36. The Hon'ble Commission has considered 2 Nos. of 400kV bays at Bhiwani sub-station for 400kV Bhiwani-Mohindergarh transmission line vide earlier orders. However, the Petitioner has successfully completed the trail run operation of additional 2 Nos of 400kV bays at Bhiwani sub-station for Mohindergarh - Bhiwani Ckt 3 & 4 Transmission line on 23.03.2023. Accordingly, the Petitioner has also claimed the O&M expenses for this additional 2 Nos of bays at Bhiwani sub-station with effect from 24.03.2023. A copy of trail run certificate for additional 2 Nos of 400kV bays at Bhiwani sub-station is attached as **Annexure-6**.
37. The Normative O&M Expenses for the control period from FY 2019-20 to FY 2023-24 is specified in Regulation 35 (3) of Tariff Regulation, 2019. The Operation and Maintenance expenses has been calculated by multiplying the number of sub-station bays, transformer capacity of the transformer (in MVA) and km of line length with the applicable norms for the operation and maintenance expenses per bay, per MVA and per km respectively.
38. Further, Regulation 35 (3) (a)(iii) specifies that the O&M expenses of ± 500 kV Mundra - Mohindergarh HVDC bipole scheme (2500 MW) shall be



allowed as worked out by multiplying 0.80 of the normative O&M expenses for ± 500 kV Talchar-Kolar HVDC bi-pole scheme (2500 MW). Accordingly, the Petitioner has calculated the normative O&M expense for ± 500 kV Mundra - Mohindergarh HVDC bipole scheme.

39. It is pertinent to note that Regulation 35 (3) (c) of Tariff Regulation, 2019 provides for Security Expenses and Capital spares shall be allowed as O&M expenses for Transmission system. Hence, the Petitioner has claimed the Security Expenses and Capital spares for the control Period from FY 2019-20 to FY 2023-24. The Petitioner has claimed following Capital Spares as part of O&M expenses.

- a) Battery Discharge Kit: AC Transmission system is highly dependent on the auxiliary power requirement. Loss of supply for few seconds leads to tripping of the HVDC pole. The major support for reliable auxiliary supply is the DC batteries which take care of the load for 2 minutes period by when DG set comes in operation. With such high dependencies on batteries, the Battery discharge kit helps in assessment of the Battery healthiness.
- b) Circuit Breaker Operation Analyser: CB Operation analyser is essential to identify the CB operating parameters and its healthiness.
- c) Spare Tower Parts, Spare Relays to meet any abnormality, Spare Bushing and Spare Insulator.
- d) SF6 Analyser: To identify the SF6 gas leakages in the AC and DC yard components.
- e) Battery Ground Fault Locator: HVDC system is highly dependent on the auxiliary power requirement and loss of supply for few seconds lead to tripping of the HVDC pole. The major support for reliable auxiliary supply is the DC batteries which take care of the load for 2 minutes period



by when DG set comes to operation. Battery Ground fault locator easily identifies the ground faults in the battery bank.

- f) Dynamic Contact Resistance Measurement Kit: Dynamic Contact resistance measurement is an effective way to identify the abnormalities in the circuit breakers, much before its failure. Hence, it is essential to check the healthiness of critical circuit breakers.
 - g) Current Transformers: Existing Current Transformers have their diaphragm set for low values and hence failures can be reduced with the new make CT's.
 - h) Transformer High Precision Micro Ohm Meter: Micro ohm meter measure the winding resistance in an effective way and identifies the inter turn faults effectively.
 - i) Operating system for SCADA gateway application spare
 - j) Thermo Vision Camera: Thermal camera helps in identifying the incipient faults in equipment due to internal failures and timely prevention can be ensured.
 - k) Ground Resistance Tester: To identify the faults in the Transmission line.
 - l) Double Tension-Pass: OPGW and Tension Assembly for Pass through location.
40. Further, as per Regulation 35 (3) (a) (iv) of the Tariff Regulation, 2019, the O&M expenses of Static Synchronous Compensator and Static Var Compensator shall be worked at 1.5% of original project cost as on commercial operation which shall be escalated at the rate of 3.51% to work out the O&M expenses during the tariff period. Accordingly, the Petitioner has considered the O&M cost towards FSC for the control period.
41. The Hon'ble Commission, vide Regulation 35(4), has also proposed to allow the operation and maintenance expenses for the communication system at



the rate of 2.0% of the original project cost related to such communication system. The Petitioner has worked out the O&M expenses for the communication system as per the original Project cost as per the Approved Capital cost of Communication system. The detailed calculation of Operation and Maintenance Expenses is attached herewith as Form 2 of Tariff Determination formats.

42. It is to be noted that this Hon'ble Commission vide order dated 21.01.2022 in Petition No. 216/TT/2020 had disallowed the Petitioner's claim for Separate O&M expenses for communication system and Fixed Series Compensator (FSC) for the control period of FY 2019-20 to FY 2023-24. Aggrieved by the same, the Petitioner had filed Appeal No. 9/2023 against the order dated 21.01.2022 in Petition No. 216/TT/2020. The Hon'ble APTEL vide its judgment dated 18.11.2024 has allowed the O&M separate expenses for Communication system and FSC. The relevant extract of the judgment dated 18.11.2024 in Appeal No. 9/2023 is as under:

*"66. This regulation clearly provides for separate O&M expenses for communication to be calculated at 2% of the original projected cost related to such communication system. However, the transmission licensee is required to submit the actual O&M expenses for truing up. The observation of the Commission that PLCC equipment has been considered as part of sub-station for which O&M expenses have already been granted, runs in the teeth of these regulations and thus, cannot be accepted. **Therefore, we set aside the findings of the Commission with the direction that the O&M expenses for communication system be calculated separately in terms of the above noted Regulation 35(4) of 2019 Tariff Regulations. This exercise shall be completed by the Commission within one month from the date of this judgment.***

.....

*71. We feel that demand of justice would be met in case one opportunity is granted to the appellant to furnish the requisite details to the Commission for calculating O&M expenses for Fixed Series Compensator. **Therefore, the issue is remanded back to the Commission for fresh consideration. The appellant shall furnish***



the requisite details of the capital cost of the project as on commercial operation date to the Commission within two weeks from the date of this judgment, and the Commission shall decide the issue within two weeks thereafter.”

In view of the above, the Petitioner has submitted the Auditor’s certificate for Capital Cost of the Project as on commercial operation date i.e. 30.09.2013 for Asset II and has also shown separate capital cost for FSC as on 30.09.2013. Same is attached as **Annexure-7**.

Accordingly, we request this Hon’ble Commission to allow separate O&M expenses for Communication system and FSC for the control period of FY 2019-20 to FY 2023-24.

43. In light of the above, the normative O&M expenses claimed are as under:

(Rs. In Lakhs)

Years	Asset I	Asset II	Asset III
FY 2019-20	4,780	931	-
FY 2020-21	4,845	966	-
FY 2021-22	5,110	1,163	-
FY 2022-23	5,264	1,039	-
FY 2023-24	5,253	1,072	-

Interest on Working Capital

44. The Working capital is calculated for FY 2019-20 to FY 2023-24 as per Regulation 34 (1) (c) of CERC (Terms & Conditions of Tariff) Regulations, 2019. As per the Regulation, the Working Capital requirement includes



following components:

- a) O&M expenses of one month
- b) Maintenance spares @ 15% of O&M expenses
- c) Receivables equivalent to 45 days of annual fixed cost

45. The bank rate as defined in Regulation 3 (7) of CERC (Terms & Conditions of Tariff) Regulations, 2019 is considered as the rate of interest for working capital as per Regulation 34 (3) of CERC (Terms & Conditions of Tariff) Regulations, 2019 for FY 2019-20 to FY 2023-24.

Annual Transmission Charges

46. The Trued up transmission tariff for FY 2019-20 to FY 2023-24 has been worked out as given in table below:

(Rs. In Lakhs)

Asset - I					
Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Depreciation	19,743	19,744	19,750	19,774	19,793
Interest on Loan	20,386	17,772	15,167	12,590	10,002
Return on Equity	21,830	21,832	21,839	21,864	21,884
Interest on Working Capital	1,143	1,032	938	911	1,002



Asset - I					
Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
O&M Expenses	4,780	4,845	5,110	5,264	5,253
Total	67,882	65,224	62,804	60,403	57,935

(Rs. In Lakhs)

Asset - II					
Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Depreciation	2,801	2,801	2,803	2,811	2,817
Interest on Loan	2,796	2,424	2,057	1,699	1,336
Return on Equity	3,048	3,048	3,050	3,058	3,064
Interest on Working Capital	171	156	148	139	155
O&M Expenses	931	966	1,163	1,039	1,072



Asset - II					
Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Total	9,746	9,395	9,221	8,747	8,443

(Rs. In Lakhs)

Asset - III					
Particulars	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24
Depreciation	-	-	1.29	254.24	270.38
Interest on Loan	-	-	2.26	429.59	423.19
Return on Equity	-	-	1.38	271.31	288.53
Interest on Working Capital	-	-	0.06	12.53	14.71
O&M Expenses	-	-	-	-	-
Total	-	-	4.99	967.66	996.81

47. The True up Formats along with other relevant information are annexed herewith and marked as **Annexure-8A, Annexure-8B & Annexure-8C** for



Asset I, Asset II & Asset III respectively.

Tariff determination for the tariff period 2024-29 (from 01.04.2024 to 31.03.2029)

48. The Tariff for control period from FY 2024-25 to FY 2028-29 has been filed as per Annexure-I to the Tariff Regulation, 2024. The Transmission tariff has been calculated considering trued up capital expenditure as on 31.03.2024. the Petitioner has considered the estimated additional capital expenditure for the control period from FY 2024-25 to FY 2028-29.

Additional Capital Expenditure

49. The Petitioner has claimed following Additional Capital Expenditure for the control Period from FY 2024-25 to FY 2028-29.

Asset-I

- a) Installation of Co2 injection system in the Valve hall of HVDC Mundra and Mohindergarh terminals: ± 500 kV HVDC Mundra Mohinderagarh Transmission system is a critical interconnection between the western region and the Northern Region. The system is in service since the last 12 years. Every year, the system is taken into outage for 6-8 days majorly to check the valve cooling system with checks of deposition of the electrode cooling tubes. The reason of deposition is during circulation of Demineralized (DM) water for cooling of thyristor, it meets aluminium alloy heat sinks of the thyristor. Very slow chemical process happens which releases aluminium in DM water while circulation within thyristor heat sink. Released aluminium particles in microns circulate inside water tubes of valve hall. Siemens has provided electrodes on colling tubes of valve hall. Aluminium particles with other impurities deposit on electrodes provided on colling tubes of valve hall. It is very critical to check these electrodes every year so that electrodes with high deposition



can be replaced. Moreover, we have had 5 nos. of emergency outages availed in the past 2 years due to deposition and water leakage in the valve hall. The problem is aggravating, and we are required to check the deposition on electrodes on 6 monthly basis i.e. 16 days outage of HVDC system.

We had approached OEM (M/S Siemens) to provide a solution for such deposition. M/S Siemens has proposed installation of CO₂ dosing (injection) system. The purpose of the CO₂-dosing system is to inject gaseous CO₂ in the cooling system in order to modify the conditions of the cooling water. According to the CO₂ amount the pH-value of the cooling water and the conductivity changes. Through the conductivity value the injected CO₂ amount is controlled. The CO₂-dosing system is needed to reduce/stop the formation of aluminium coating on the grading electrodes used inside the converter. Thus, the injection system maintains the pH of DM water to 7 which prevents such scaling. This issue was also discussed in 225th OCC meeting conducted by NRPC. The MoM of 225th OCC meeting dated 08.11.2024 is attached as **Annexure-9**. Accordingly, the petitioner will incur the additional capital expenditure of Rs. 60 Cr towards installation of Co₂ injection system in the Valve hall of HVDC Mundra and Mohindergarh terminals in FY 2025-26. The Petitioner has claimed the additional capital expenditure of Rs. 60 Cr towards installation of installation of Co₂ injection system in the Valve hall of HVDC Mundra and Mohindergarh terminals under Regulation 26(1)(i) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.

- b) DC SCADA & Remote Control Interface (RCI) Upgradation at HVDC Mundra and Mohindergarh Terminals: DC SCADA system of HVDC Terminals is essential to control the power of HVDC system and manage



the grid operations. The system is running of Windows XP based Operating system, the support for the same has been abandoned by OEM since 2014. Any failure of software will lead to failure of operation of SCADA system and hence power controlling from HVDC will not be possible. It is therefore recommended by OEM to upgrade the system with the latest OS version on account of obsolescence of existing system. Accordingly, the petitioner will incur the additional capital expenditure of Rs. 5 Cr towards DC SCADA & Remote Control Interface (RCI) Upgradation at HVDC Mundra and Mohindergarh Terminals in FY 2026-27. The Petitioner has claimed the additional capital expenditure of Rs. 5 Cr towards DC SCADA & Remote Control Interface (RCI) Upgradation at HVDC Mundra and Mohindergarh Terminals under Regulation 25(2)(c) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.

- c) Obsolesce of Valve reactors in HVDC System: Valve reactors are essential for the operation of Valve hall of HVDC system and help in conversion of AC to DC and thereby HVDC Transmission. OEM (M/S Siemens) has informed that these valve reactors will not be available henceforth and has advised to stock the Valve reactors for the balance project operational duration. Further, the HVDC system is Line commutated converters (LCC) based and such components are not much available. It is therefore recommended by OEM to procure at least 20 nos. of Valve reactors at each Mundra and Mohindergarh terminals. The copy of letter from OEM is attached as **Annexure-10**. Accordingly, the petitioner will incur the additional capital expenditure of Rs. 15 Cr towards Valve reactors in HVDC System in FY 2024-25. The Petitioner has claimed the additional capital expenditure of Rs. 15 Cr towards Valve



reactors in HVDC System under Regulation 25(2)(c) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.

- d) Transient fault recorder & Line fault locator upgrade at HVDC Mundra and Mohindergarh Terminal: Transient fault recorder is a system to capture the transient faults data, their signatures and the actual distance of the fault. The system is running of Windows XP based Operating system, the support for the same has been abandoned by OEM since 2014. Any failure of software will lead to failure of operation of TFR system and hence transient fault could not be analysed. It is therefore recommended by OEM to upgrade the system with the latest OS version on account of obsolescence of existing system. Accordingly, the petitioner will incur the additional capital expenditure of Rs. 10 Cr towards Transient fault recorder & Line fault locator upgrade at HVDC Mundra and Mohindergarh Terminal in FY 2025-26. The Petitioner has claimed the additional capital expenditure of Rs. 10 Cr towards Transient fault recorder & Line fault locator upgrade at HVDC Mundra and Mohindergarh Terminal under Regulation 25(2)(c) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.
- e) Upgradation of AC Switchgear at Dhanoda and Bhiwani Bays: NRLDC, vide letter dated 23.06.2023, had asked the Petitioner to upgrade the equipments installed at Dhanoda and Bhiwani. The matter was also discussed in 208th OCC of NRPC followed by in principle approval in the 48th TCC and 70th NRPC meeting. Accordingly, ATIL shall be carrying out the same on additional capitalization basis. The copy of above MoMs are attached as **Annexure-11**. Accordingly, the petitioner will incur the additional capital expenditure of Rs. 35 Cr towards Upgradation of AC



Switchgear at Dhanoda and Bhiwani Bays in FY 2025-26. The Petitioner has claimed the additional capital expenditure of Rs. 35 Cr towards Upgradation of AC Switchgear at Dhanoda and Bhiwani Bays under Regulation 25(2)(c) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.

Asset-II

- a) Replacement of rusting earth wire in 400KV Mundra-Dehgam D/C Line near costal and creek area: 400 KV D/C Mundra-Dehgam Transmission system is a critical interconnection between the Mundra Thermal plant to Dehgam substation. The line is in service since the last 15 years. The said line travers through the coastal and creek area. Due to the salty atmosphere and costal area, we faced frequently earth wire snapping which led to line tripping in said section since 2019. We observed rusting on earth wire during tower top patrolling and drone survey in this area. To resolve the issue permanently. we propose to replace one side Earth wire to earth wire and second side OPGW instead of Earth wire due to upgradation technology to avoid line tripping and to improve system reliability and increase substation equipment life. Accordingly, the petitioner will incur the additional capital expenditure of Rs. 4.87 Cr towards Replacement of rusting earth wire in 400KV Mundra-Dehgam D/C Line in FY 2024-25. The Petitioner has claimed the additional capital expenditure of Rs. 4.87 Cr towards Replacement of rusting earth wire in 400KV Mundra-Dehgam D/C Line under Regulation 25(2)(c) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.
- b) Stub reconditioning/ strengthening in 400KV D/C Mundra-Sami-Dehgam line: 400KV D/C Mundra-Sami-Dehgam line is a critical



interconnection between Mundra-Power plant to Dehgam S/s. The line has been in service for the last 15 years. The said line passes through a creek area near Adesar, Gujarat. During routine patrolling the chimney was found damaged with cracks in tower 551 to 560. While repairing the chimney, the critical condition of the stub observed. Looking at the severity & criticality of locations, we approached expert/consultant of M/s Takalkar Power Engineers and Consultants Pvt. Ltd (TPECPL). The Managing Director Er. S.M. Takalkar and team visited the site on 21.06.2024. Based on the site visit done by M/s Takalkar & our Engineering team, we need to carry out the rectification work to safeguard the tower foundations from location no 551 to 560 (8 Nos- Tension, 2 Nos- Suspension & all are in Creek Area) otherwise it may lead to tower failure. Accordingly, the petitioner will incur the additional capital expenditure of Rs. 3.77 Cr towards Stub reconditioning/ strengthening in 400KV D/C Mundra-Sami-Dehgam line in FY 2024-25. The Petitioner has claimed the additional capital expenditure of Rs. 3.77 Cr towards Stub reconditioning/ strengthening in 400KV D/C Mundra-Sami-Dehgam line under Regulation 25(2)(c) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.

- c) Obsolescence of FSC -1 and 2 components: FSC system is essential for the flow of Power from Mundra thermal plant to Dehgam S/s. The system was commissioned in 2008 and the components of the FSC are now obsolete leading to frequent failure of the components and delays in the availability of spares. Few of the components of the HVDC system are now obsolete and hence require to be stocked to meet future challenges. It is therefore recommended by OEM to procure the spares to meet future requirements. Accordingly, the petitioner will incur the additional capital



expenditure of Rs. 1.50 Cr towards Obsolescence of FSC -1 and 2 components in FY 2025-26. The Petitioner has claimed the additional capital expenditure of Rs. 3.77 Cr towards Obsolescence of FSC -1 and 2 components under Regulation 25(2)(c) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.

- d) Upgradation of FSC capacitors to new design: FSC capacitors are the main components of FSC system. In the past, we have observed 3 nos. of failure of FSC capacitors which has led to fire in the entire FSC system leading to long outages of the system. OEM has recommended new design capacitors (with an additional element) to prevent the failure of the capacitors. The new design units will enhance the life of HVDC system and hence requested as a technical upgrade to enhance the safety and security of the system. Accordingly, the petitioner will incur the additional capital expenditure of Rs. 2.00 Cr towards Upgradation of FSC capacitors to new design in FY 2026-27. The Petitioner has claimed the additional capital expenditure of Rs. 2.00 Cr towards Upgradation of FSC capacitors to new design under Regulation 26(1)(i) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.

Asset-III

- a) Procurement of 12-ohm series reactor at Mohindergarh Substation:

12-ohm series reactor had been installed at HVDC Mohindergarh to reduce the fault level of the system. The series reactor is essential and with increase in grid complexities, the reliable operation of series reactor is essential. The series reactor is a brought out item with very long lead time. To mitigate the risk of business continuity, it is proposed to procure additional spare of 12-ohm series reactor at HVDC Mohindergarh.



Accordingly, the petitioner will incur the additional capital expenditure of Rs. 10.00 Cr towards Procurement of 12-ohm series reactor at Mahendragarh Substation in FY 2025-26. The Petitioner has claimed the additional capital expenditure of Rs. 10.00 Cr towards Procurement of 12-ohm series reactor at Mahendragarh Substation under Regulation 24(1)(c) of Tariff Regulation, 2024 which provides for those expenditures which has become necessary for efficient operation of transmission system.

50. In view of above the Petitioner has claimed the following Additional Capitalisation for the control period of FY 2024-25 to FY 2028-29:

(Rs. In Lakh)

Asset-I					
Sr. No	Year	Head under which claimed	Amount proposed to be capitalised	Justification	Regulation under which covered
1.	FY 2024-25	Substation Equipment	1500	Obsolesce of Valve reactors in HVDC System	Regulation 25 (2) (c) of Tariff Regulation, 2024
2.	FY 2025-26	Substation Equipment	6000	Installation of Co2 injection system in the Valve hall of HVDC Mundra	Regulation 26 (1) (i) of Tariff Regulation, 2024



Asset-I					
Sr. No	Year	Head under which claimed	Amount proposed to be capitalised	Justification	Regulation under which covered
				and Mohindergarh terminals	
3	FY 2025-26	Substation Equipment	1000	Transient fault recorder & Line fault locator upgrade at HVDC Mundra and M.garh Terminal	Regulation 25 (2) (c) of Tariff Regulation, 2024
4	FY 2025-26	Substation Equipment	3500	Upgradation of AC Switchgear at Dhanoda and Bhiwani Bays	Regulation 25 (2) (c) of Tariff Regulation, 2024
5.	FY 2026-27	Substation Equipment	500	DC SCADA & RCI Upgradation HVDC Mundra and Mohindergarh Terminals	Regulation 25 (2) (c) of Tariff Regulation, 2024



(Rs. In Lakh)

Asset-II					
Sr. No	Year	Head under which claimed	Amount proposed to be capitalised	Justification	Regulation under which covered
1.	FY 2024-25	Transmission Line	487	Replacement of rusting earth wire in 400KV Mundra-Dehgam D/C Line near costal and creek area	Regulation 25 (2) (c) of Tariff Regulation, 2024
1.	FY 2024-25	Transmission Line	377	Stub reconditioning / strengthening in 400KV D/C Mundra-Sami-Dehgam line	Regulation 25 (2) (c) of Tariff Regulation, 2024
2	FY 2025-26	Substation Equipment	150	Obsolescence of FSC -1 and 2 components	Regulation 25 (2) (c) of Tariff Regulation, 2024
3	FY	Substation	200	Upgradation of	Regulation



Asset-II					
Sr. No	Year	Head under which claimed	Amount proposed to be capitalised	Justification	Regulation under which covered
	2026-27	Equipment		FSC capacitors to new design.	26 (1) (i) of Tariff Regulation, 2024

(Rs. In Lakh)

Asset-III					
Sr. No	Year	Head under which claimed	Amount proposed to be capitalised	Justification	Regulation under which covered
1.	FY 2025-26	Substation Equipment	1000	Procurement of 12-ohm series reactor at Mohindergarh Substation	Regulation 24 (1) (c) of Tariff Regulation, 2024

Depreciation

51. the Petitioner has calculated the depreciation charges for FY 2024-25 to FY



2028-29 as prescribed in the Regulations 33 of CERC (Terms & Conditions of Tariff) Regulations, 2024.

Interest on Loan

52. Interest on loan is calculated for FY 2024-25 to FY 2028-29 as prescribed in Regulations 32 of CERC (Terms & Conditions of Tariff) Regulations, 2024. The Petitioner has considered the weighted average interest rate of FY 2023-24 for the purpose of interest rates during FY 2024-25 to FY 2028-29. The repayment is considered equal to the depreciation for the year.

O&M Expenses

53. The Normative O&M Expenses for the control period from FY 2024-25 to FY 2028-29 is specified in Regulation 36 (3) of Tariff Regulation, 2024. The Operation and Maintenance expenses has been calculated by multiplying the number of sub-station bays, transformer capacity of the transformer/reactor/Static Var Compensator/Static Synchronous Compensator (in MVA/MVAr) and km of line length with the applicable norms for the operation and maintenance expenses per bay, per MVA/MVAr and per km respectively.
54. Further, Regulation 36 (3) (a) specifies that the O&M expenses of ± 500 kV Mundra - Mohindergarh HVDC bipole scheme (2500 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for HVDC bi-pole scheme. Accordingly, the Petitioner has calculated the normative O&M expense for ± 500 kV Mundra - Mohindergarh HVDC bipole scheme.
55. It is pertinent to note that Regulation 36 (3) (d) of Tariff Regulation, 2024 provides for Security Expenses, Capital spares and Insurance expenses shall be allowed as O&M expenses for Transmission system. Hence, the Petitioner has estimated the Security Expenses, Capital spares & Insurance



expenses for the control Period from FY 2024-25 to FY 2028-29.

56. The Hon'ble Commission, vide Regulation 36 (3) (c), has also proposed to allow the operation and maintenance expenses for the communication system at the rate of 2.0% of the original project cost related to such communication system. The Petitioner has worked out the O&M expenses for the communication system as per the original Project cost as per the Approved Capital cost of Communication system. The detailed calculation of Operation and Maintenance Expenses is attached herewith as Form 2 of Tariff Determination formats.

57. In light of the above, the O&M expenses claimed are as under:

(Rs. In Lakhs)

Years	Asset I	Asset II	Asset III
FY 2024-25	5,262	1,168	174
FY 2025-26	5,608	1,232	183
FY 2026-27	5,942	1,297	193
FY 2027-28	6,325	1,367	203
FY 2028-29	6,650	1,443	214

Return on Equity

58. The Petitioner submits that it has paid 17.472% for FY 2023-24. Hence, current MAT rate of 17.472% has been considered by the Petitioner which results into RoE of 18.78% for the entire control period of FY 2024-25 to FY 2028-29 as per Regulation 30 & 31 of CERC (Terms & Conditions of Tariff) Regulation, 2024.



Interest on Working Capital

59. The Working capital is calculated for FY 2024-25 to FY 2028-29 as per Regulation 34 (1) (d) of CERC (Terms & Conditions of Tariff) Regulations, 2024. As per the Regulation, the Working Capital requirement includes following components:

- a) O&M expenses of one month
- b) Maintenance spares @ 15% of O&M expenses
- c) Receivables equivalent to 45 days of annual fixed cost

60. The Reference rate as defined in Regulation 3 (66) of CERC (Terms & Conditions of Tariff) Regulations, 2024 is considered as the rate of interest for working capital as per Regulation 34 (3) of CERC (Terms & Conditions of Tariff) Regulations, 2024 for FY 2024-25 to FY 2028-29.

Annual Transmission Charges

61. The transmission tariff for FY 2024-25 to FY 2028-29 has been worked out as given in table below:

(Rs. In Lakhs)

Asset - I					
Particulars	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28	FY 2028-29
Depreciation	19,834	20,150	6,391	6,404	6,404
Interest on Loan	7,448	5,355	4,107	3,283	2,434
Return on Equity	21,927	22,265	22,575	22,589	22,589



Asset - I					
Particulars	FY 2024- 25	FY 2025- 26	FY 2026- 27	FY 2027- 28	FY 2028- 29
Interest on Working Capital	959	953	748	751	754
O&M Expenses	5,262	5,608	5,942	6,325	6,650
Total	55,430	54,332	39,764	39,353	38,832

(Rs. In Lakhs)

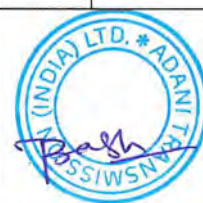
Asset - II					
Particulars	FY 2024- 25	FY 2025- 26	FY 2026- 27	FY 2027- 28	FY 2028- 29
Depreciation	2,840	2,866	678	688	688
Interest on Loan	1,001	670	451	370	279
Return on Equity	3,089	3,117	3,127	3,133	3,133
Interest on Working Capital	154	152	119	121	123



Asset - II					
Particulars	FY 2024- 25	FY 2025- 26	FY 2026- 27	FY 2027- 28	FY 2028- 29
O&M Expenses	1,168	1,232	1,297	1,367	1,443
Total	8,251	8,038	5,673	5,679	5,666

(Rs. In Lakhs)

Asset - III					
Particulars	FY 2024- 25	FY 2025- 26	FY 2026- 27	FY 2027- 28	FY 2028- 29
Depreciation	270	297	323	323	323
Interest on Loan	387	396	401	359	316
Return on Equity	289	317	345	345	345
Interest on Working Capital	22	23	24	24	24
O&M Expenses	174	183	193	203	214
Total	1,142	1,216	1,287	1,254	1,222



62. The Tariff Filing Formats along with other relevant information are annexed herewith and marked as **Annexure-12A, Annexure-12B & Annexure-12C** for Asset I, Asset II & Asset III respectively.

GST

63. The Government of India has exempted the charges of transmission of electricity vide notification no. 12/2017 – Central Tax (Rate) dated 28.06.2017 at serial no. 25 under the heading “Transmission or distribution of electricity by an electric transmission or distribution utility” by giving applicable GST rate as NIL and accordingly the Transmission Charges indicated above, are exclusive of GST and same shall be changed, billed separately by the Petitioner if at any time the transmission charges are withdrawn from the list of NIL GST and will be borne and additionally paid by the respondents to the Petitioner. Further, any additional taxes to be paid by the Petitioner on account of demand from any Government/Statutory authorities, the same may be allowed to be recovered from the beneficiaries

Other Expenses

64. The application filing fee, expenses incurred on publication of notices in Newspapers may be allowed to be recovered separately from the respondents in terms of Regulation 94 (1) of the Tariff Regulations, 2024. The fees and charges to be paid by the Petitioner as ISTS licensee (deemed ISTS licensee) under CERC (Fees and Charges of RLDC and other matters) Regulations as amended from time to time and License Fees paid by the Petitioner as Inter State Transmission Licensee (deemed ISTS licensee) in terms of CERC (Payment of Fees) Regulations, 2012 shall be recoverable from the DICs as provided under clause 92(2) (3) & (4) of the Tariff regulation, 2024.
65. The Transmission Charges and other related Charges indicated above, are



exclusive of incentive, late payment surcharge, FERV, any statutory taxes, levies, duties, cess, filing fees, Licence fee, RLDC fees and charges or any other kind of imposition (s) and/ or other surcharges etc. whatsoever imposed / charged by any Government (Central/State) and / or any other local bodies/authorities/regulatory authorities in relation to transmission of electricity/environmental protection, and/or in respect of any of its installation associated with the Transmission System and the same shall be borne and additionally paid by the respondent(s) to the Petitioner and the same shall be charged, billed separately by the Petitioner on the Respondents.

Sharing of Transmission Charges

66. Tariff for Transmission of Electricity (Annual Fixed Cost) shall be recovered on monthly basis in accordance with Regulation 78 of Tariff Regulations, 2024 and shall be shared by the beneficiaries and long term transmission customers in Central Electricity Regulatory Commission (Sharing of Inter State Transmission Charges and Losses) Regulations, 2020 dated 04.05.2020 and amendment to these Regulations issued from time to time.
67. In the circumstances mentioned above it will be just and proper that the transmission tariff and charges for the assets covered under this Petition be allowed to be charged from the Respondents on the basis set out above.
68. Further, the Petitioner requests the Hon'ble Commission to invoke Regulation 102 "Power to Relax" under CERC Terms and Conditions of Tariff Regulations 2024 respectively if the circumstances arise for any matter mentioned herewith in the petition.

The present petition is made bonafide and in the interest of justice. The Hon'ble Commission has jurisdiction to entertain the present matter and pass orders in



terms of jurisdiction vested under section 61, 62, read with section 79 and section 94 of the Electricity Act, 2003.



PRAYER

In view of the aforementioned facts and circumstances of the present case it is, therefore, most respectfully prayed that this Hon'ble Commission may graciously be pleased to:

- a) Approve the Trued up Transmission Tariff for the Period of FY 2019-20 to FY 2023-24 for the assets covered under this Petition;
- b) Approve the Additional Capitalisation actually incurred during the tariff block FY 2019-20 to FY 2023-24 as claimed in the Petition.
- c) Approve the Transmission Tariff for the tariff block FY 2024-25 to FY 2028-29 for the assets covered under this Petition, claimed in this petition.
- d) Approve the Additional capitalisation projected to be incurred during the tariff block of FY 2024-25 to FY 2028-29 as claimed in the Petition.
- e) Approve the reimbursement of expenditure by the beneficiaries towards Petition filing fee, and expenditure on publishing of notices in newspapers in terms of Tariff Regulations and other expenditure (if any) in relation to the filing of Petition;
- f) Allow the Petitioner to bill and recover the Licence fee and RLDC fees and charges, separately from the respondents in terms of Tariff Regulations; and
- g) Pass such other and further order or orders as this Hon'ble Commission may deem fit and proper under the facts and circumstances of the present case and in the interest of justice.

For, Adani Transmission (India) Limited

Place: Ahmedabad

Date: 21.11.2024


(Authorised Signatory)



**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

**Petition No. 216/TT/2020
alongwith
Petition No.184/TT/2013 & Petition No.146/TT/2016**

Coram:

**Shri P.K. Pujari, Chairperson
Shri I.S. Jha, Member
Shri Arun Goyal, Member
Shri P.K. Singh, Member**

Date of Order: 21.01.2022

In the Matter of:

Approval under Regulation 86 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and truing up of transmission tariff of the 2014-19 period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 and determination of transmission tariff of the 2019-24 period under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for Transmission System constructed, maintained and operated by Adani Transmission (India) Limited vide License No. 20/Transmission/2013/CERC.

And in the matter of:

Adani Transmission (India) Limited (ATIL),
(earlier in the name of Adani Power Limited),
Shikhar, Near Adani House,
Mithakhali Six Roads, Navrangpura,
Ahmedabad-389009.

....Petitioner

Vs

1. Power Grid Corporation of India Limited,
Saudamini, Plot-2, Sector-29,
Near IFFCO Chowk,
Gurgaon-122001, Haryana.
2. National Load Dispatch Centre,
B-9, Qutab Industrial Area, Katwaria Sarai,
New Delhi-110016.
3. Northern Regional Load Despatch Centre,
18-A, Shaheed Jeet Singh Sansanwal Marg,
Katwaria Sarai,
New Delhi-110016.



4. Western Regional Power Committee,
F-3, MIDC Area, Marol, Opposite SEEPZ,
Central Road, Andheri (East),
Mumbai-400093.
5. Central Electricity Authority,
Sewa Bhawan,
Sector-1, R.K. Puram,
New Delhi-110066.
6. Gujarat Energy Transmission Company Limited,
Sardar Patel Vidyut Bhawan, Race Course,
Vadodra-390007.
7. Haryana Vidyut Prasaran Nigam Limited,
1st Floor, Shakti Bhawan, Sector-6,
PanchKula-134109, Haryana.
8. Gujarat Urja Vikas Nigam Limited,
Sardar Patel Vidyut Bhawan, Race Course,
Vadodra-390007.
9. Maharashtra State Electricity Distribution Company Limited,
"Prakashgarh", Bandra (East),
Mumbai-400051, Maharashtra.
10. Madhya Pradesh Power Management Company Limited,
Shakti Bhawan, Vidyut Nagar, Rampur,
Jabalpur (MP)-482008.
11. M.P. Audyokik Kendra Vikas Nigam Limited,
Free Press House, 1st Floor,
3/54-Press Complex, A. B. road,
Indore-452008, Madhya Pradesh.
12. Chhattisgarh State Power Distribution Company Limited,
Vidyut Seva Bhawan Parisar, Dangania,
Raipur-492013, Chhattisgarh.
13. Goa State Electricity Department,
Vidyut Bhawan, Panaji,
Goa-403001.
14. Daman and Diu Electricity Department,
Administration of Daman & Diu,
Near Satya Narayan Temple,
Nani Daman-396210.



15. Electricity Department,
Administration of Dadra Nagar Haveli,
Dadra Nagar Haveli UT, Silvassa-396230.
16. Heavy water Projects, Department of Atomic Energy,
Heavy Water Board,
Vikram Sarabhai Bhawan, Anushakti Nagar,
Mumbai-400094.
17. Jindal Power Limited,
Tamnar,
Raigarh, Chattisgarh-496001.
18. Torrent Power Limited,
Torrent House, Opposite Ashram Road,
Ahmedabad-380009.
19. PTC India Limited,
2nd Floor, NBCC Tower,
15, Bhikaji Complex,
New Delhi-110066.
20. Haryana Power Purchase Centre,
Shakti Bhawan, Sector-6,
Panchkula, (Haryana)-134109.
21. Rajasthan Power Procurement Centre,
Room No. 24, Vidyut Bhawan, Janpath, Jyoti Nagar,
Jaipur-302005, Rajasthan.
22. Jodhpur Vidyut Vitran Nigam Limited,
New Power House Industrial Area,
Jodhpur-342003, Rajasthan.
23. Jaipur Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Janpath, Jyoti Nagar, Jyoti Marg,
Jaipur-302005, Rajasthan.
24. Ajmer Vidyut Vitran Nigam Limited,
Old Power House, Hathi Bhatta, Jaipur Road,
Ajmer-305001, Rajasthan.
25. BSES Yamuna Power Limited,
Shakti Kiran Building, Karkardooma,
Delhi-110092.
26. BSES Rajdhani Power Limited,
BSES Bhawan, Nehru Place,
New Delhi-110019.



27. Tata Power Delhi Distribution Limited,
Cennet Building, 33 kV Substation Building,
Hudson Lines, Kingsway Camp,
Delhi-110009.
28. New Delhi Municipal Council,
Palika Kendra Building, Opposite Jantar Mantra,
Parliament Street,
New Delhi-110001.
29. Uttarakhand Power Corporation Limited,
Urja Bhawan, Kanwali Road,
Dehradun-248001.
30. Uttar Pradesh Power Corporation Limited,
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226001, UP.
31. North Central Railway,
Allahabad, Uttar Pradesh.
32. Punjab State Power Corporation Limited,
The Mall, Ablowal,
Patiala-147001.
33. Power Development Department,
Jammu and Kashmir,
Civil Secretariat,
Jammu-180001.
34. Himachal Pradesh State Electricity Board,
Vidyut Bhawan,
Shimla-171004.
35. Electricity Department, UT Chandigarh,
Sector-9,
Chandigarh.
36. Northern Regional Power Committee,
18-A, Qutab Institutional Area,
Shaheed Jeet Singh Marg, Katwaria Sarai,
New Delhi-110016.
37. Western Regional Power Committee,
F-3, M.I.D.C. Area, Marol,
Andheri (East), Mumbai-400093.
38. Kanpur Electricity Supply Company Limited (NR),
14/71, Civil Lines,
Kanpur-208001.



39. Rajasthan Rajya Vidyut Prasaran Nigam Limited,
Vidyut Bhawan, Vidyut Marg,
Jaipur- 302005.

40. Delhi Transco Limited,
Shakti Sadan, Kotla Road,
New Delhi-110002.

...Respondent(s)

For Petitioner : Shri Sourav Roy, Advocate, ATIL
Shri Prabudh Singh, Advocate, ATIL
Shri Afak Pothiawala, Advocate, ATIL
Shri Bhavesh Kundalia, ATIL

For Respondents : Shri Manoj Dubey, Advocate, MPPMCL
Shri Rajeev Gupta, Advocate, MPPMCL
Shri Anindya Khare, MPPMCL
Shri K.M. Lal, DTL,
Shri S.K. Chaurvedi, DTL
Shri Gaurav Gupta, DTL
Shri Aditya Das, WRLDC
Ms. S. Usha, WRLDC

ORDER

The Petitioner, Adani Transmission (India) Limited (ATIL), a transmission licensee, has filed the instant petition for truing up of transmission tariff of the period from 1.4.2014 to 31.3.2019 under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 (hereinafter referred to as "the 2014 Tariff Regulations") and for determination of transmission tariff for the period from 1.4.2019 to 31.3.2024 under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as "the 2019 Tariff Regulations") in respect of the following assets (hereinafter referred to as "the transmission assets") under evacuation of power from Mundra Power Project to Northern Region and Western Region (hereinafter referred to as "the transmission project"):



Asset-I: ± 500 kV bipole Mundra-Mohindergarh HVDC Transmission Line including associated 400 kV lines, terminal sub-stations & bays; and

Asset-II: 400 kV D/C Mundra-Dehgam Transmission Line including associated system.

2. The Petitioner has made the following prayers in the instant petition:

"1) Approve the Trued-up Transmission Tariff for the Period of FY 2014-15 to FY 2018-19 for the assets covered under this petition.

2) Approve the Additional Capitalisation actually incurred during the tariff block FY 2014-15 to FY 2018-19 as claimed in the petition.

3) Approve the transmission tariff for the tariff block FY 2019-20 to FY 2023-24 for the assets covered under this petition, claimed in this petition.

4) Approve the Additional capitalisation projected to be incurred during the tariff block of FY 2019-20 to FY 2023-24 as claimed in the petition.

5) Approve the reimbursement of expenditure by the beneficiaries towards Petition filing fee, and expenditure on publishing of notices in newspapers in terms of Tariff Regulations and other expenditure (if any) in relation to the filing of petition.

6) Allow the Petitioner to bill and recover the Licence fee and RLDC fees and charges, separately from the respondents in terms of Tariff Regulations: and

7) Pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice."

Background

3. The brief facts of the case are as follows:

(a) The Petitioner had filed Petition No. 44/TL/2012 for grant of transmission licence for the transmission assets as they are being used as part of ISTS. The Commission *vide* order dated 29.7.2013 in Petition No. 44/TL/2012 granted the transmission license and held that the transmission assets will be considered as part of ISTS from the date of grant of transmission license i.e. with effect from 29.7.2013.

(b) The scope of the work as per order dated 29.7.2013 in Petition No. 44/TL/2012 is as follows:



Particulars of Assets	
AC system	
Transmission line	
(i)	400 kV D/C Mohindergarh-Dhanonda
(ii)	400 kV D/C Mohindergarh-Bhiwani
(iii)	400 kV D/C Mundra-Sami-Dehgam
Sub-stations	
(i)	Sub-stations at Mundra & Mohindergarh
(ii)	Bays at Bhiwani (PG) Sub-station
(iii)	Sub-stations at Mundra & Sami
(iv)	Bays at Dehgam (PG) Sub-station
HVDC System	
Transmission line	
(i)	± 500 kV Bipole Mundra-Mohindergarh HVDC line
(ii)	33 kV D/C Electrode lines for HVDC Mundra and Mohindergarh Terminal Stations
Sub-station	
(i)	HVDC Terminal Stations at Mundra & Mohindergarh

(c) The entire scope of work under the transmission project has been completed and is covered in the instant petition, the particulars of the assets under scope of the work is as follows:

AC system	Asset details
Transmission line	
(i) 400 kV D/C Mohindergarh Dhanonda	Asset-I
(ii) 400 kV D/C Mohindergarh-Bhiwani	Asset-I
(iii) 400 kV D/C Mundra -Sami - Dehgam	Asset-II
Sub-stations	
(i) Sub-stations at Mundra & Mohindergarh	Asset-I
(ii) Bays at Bhiwani (PG) Substation	Asset-I
(iii) Sub-stations at Mundra & Sami	Asset-II
(iv) Bays at Dehgam (PG) Sub-station	Asset-II
HVDC System	
Transmission line	
± 500 kV Bipole Mundra -Mohindergarh HVDC line	Asset-I
33 kV D/C Electrode lines for HVDC Mundra and Mohindergarh Terminal Stations	Asset-I
Sub-station	
HVDC Terminal Stations at Mundra & Mohindergarh	Asset-I

(d) The transmission project was executed in two sets for evacuation of power from Mundra Power Project namely, Asset-I (for evacuation of power to NR) and Asset-II (for evacuation of power to WR) as detailed hereunder:



Asset	Name of Asset	Actual COD
Asset-I	HVDC Pole-I along with HVDC line	12.07.2012
	HVDC Pole-II along with HVDC line	09.10.2012
	400 kV D/C Mohindergarh-Dhanonda AC line	12.07.2012
	400 kV D/C Mohindergarh-Bhiwani AC Line	09.08.2012
Asset II	400 kV D/C Mundra-Sami-Dehgam	13.07.2009
	400 kV D/C Sami-Dehgam along with Switching Station	13.07.2009

(e) The tariff for the transmission assets was allowed for the period from 1.10.2013 to 31.3.2014 vide order dated 18.3.2016 in Petition No.184/TT/2013, considering the deemed COD as 1.10.2013.

(f) Aggrieved with the Commission's order dated 18.3.2016 in Petition No.184/TT/2013, the Petitioner filed Appeal No. 226 of 2016 before the Appellate Tribunal for Electricity (APTEL) contesting decision of the Commission to approve COD as 1.10.2013 instead of 29.7.2013 and against reduction of capital cost of sub-stations.

(g) APTEL vide judgment dated 8.11.2017 in Appeal No. 226 of 2016 partly allowed the Appeal. APTEL held that there is no infirmity in Commission's decision to consider the opening loan as on the date of commencement of tariff after reducing it by cumulative depreciation. However, APTEL remanded the matter back to the Commission for considering the date of grant of transmission licence, i.e. 29.7.2013, as COD of the transmission assets and also directed to consider the actual cost paid by the Petitioner to PGCIL towards construction of sub-station on deposit work basis while determining the capital cost of the transmission assets.

(h) The relevant portion of the judgment dated 8.11.2017 of APTEL in Appeal No. 226/2016 regarding COD is extracted hereunder:

"We are of the considered opinion that some issues raised in the present Appeal have merit as discussed above. The Appeal is hereby partially allowed.

The Impugned Order dated 18.3.2016 passed by the Central Commission is hereby remanded to the Central Commission for allowing the date of grant of Transmission License i.e. 29.7.2013 as the date of tariff commencement for the transmission assets of the Appellant & to determine the capital cost of the said transmission assets including Bhiwani & Dehgam sub stations as on



date of grant of Transmission License as decided above including consequential reliefs to the Appellant."

- (i) As regards the capital cost of the sub-station, APTEL in its judgement dated 8.11.2017 in Appeal No. 226/2016 has held as follows:

"Reduction of Capital Cost of AC Substation Portion

1) *In view of the above we are of the considered opinion that the Central Commission is justified in using benchmark capital cost while deciding capital cost of the AC substation of the Appellant and there is no infirmity in the decision of the Central Commission. (Ref: 16 (c) v)*

2) *We observe that in case of the sub stations (Bhiwani & Dehgam) where Powergrid has carried out the works of the Appellant on deposit works basis in the premises of its existing sub stations, the Central Commission has compared the capital cost of the Appellant with that of the indicative cost of similar works carried out by Powergrid. (Ref: 16 (h) ii)*

3) *We see some merit in the claim of the Appellant that the Central Commission has subjectively used indicative cost or benchmark cost as prudence check for arriving at the capital cost of the Appellant. In view of our discussions as above, the deposit works carried out by the Powergrid on behalf of the Appellant and the cost of those works being less than as derived from the benchmark model, we are of the considered opinion that the Appellant is entitled to recover the cost for the said sub stations where Powergrid has executed the works on behalf of the Appellant. The Central Commission is hereby directed to consider the actual capital cost considering the deposit work executed by Powergrid for the said transmission assets. Here we would like to clarify that the capital cost in this case for the said assets is to be considered as on date of grant of TL as we have decided the date of tariff commencement as the date of grant of TL to the Appellant. (Ref: 16 (h) iii)*

Reduction of Loan Outstanding by Cumulative Depreciation till the Date of Transmission License

1) *Accordingly, as per the foregoing discussions, we decide that the opening loan as on date of tariff commencement date is to be considered after reducing it by cumulative depreciation as done by the Central Commission and there is no infirmity in the decision of the Central Commission in this regard. (Ref: 16 (j) v)*

2) *We have already decided that the tariff commencement date is to be considered as date of grant of TL i.e. 29.7.2013 therefore, the Central Commission is directed to work out the capital cost as on 28.7.2013 and the other tariff components including interest on loan as per the provisions of the Tariff Regulations, 2009. (Ref: 16 (j) vi)*

3) *On the issue of depreciation on pruned capital cost as on date of tariff determination, the Central Commission has submitted that this issue is being dealt in true up petition filed by the Appellant. Accordingly, with the consent of the parties this issue is not dealt in the present Appeal. However, it is clarified*



that the date of tariff commencement is to be taken as 29.7.2013 as decided in this judgement. (Ref: 16 (j) vii)"

(j) Aggrieved with the decision of APTEL on the issue of amount of opening loan, the Petitioner has filed a Review Petition No. 3 of 2018 in Appeal No. 226/2016 before APTEL and same is pending. The Petitioner has also filed Civil Appeal against the judgment of the APTEL in Appeal No. 226/2016 before the Hon'ble Supreme court and the same is also pending before the Hon'ble Supreme court.

(k) In the meanwhile, the Petitioner filed Petition No. 146/TT/2016 for truing up of tariff of 2013-14 period and for determination of transmission tariff for the 2014-19 tariff period. The trued-up tariff determined *vide* order dated 3.11.2017 in Petition No.146/TT/2016 was based on admitted capital cost of ₹364539.06 lakh and ₹54089.69 lakh as on 1.10.2013 and ₹370083.06 lakh and ₹54089.69. lakh as on 31.3.2014, in case of Asset-I and Asset-II respectively. The trued-up additional capital expenditure (ACE) considered for Asset-I and Asset-II during 2013-14 period was ₹5544.00 lakh and 'nil', respectively.

(l) The present petition is filed by the Petitioner for truing up of tariff of 2014-19 tariff period in accordance with the 2014 Tariff Regulations and determination of tariff for the 2019-24 tariff period in accordance with the 2019 Tariff Regulations.

4. The matter was heard on 28.8.2020 and order was reserved. Thereafter, the Petitioner submitted letter dated 7.10.2021 stating that it is not inclined to press for the implementation of the APTEL judgment dated 8.11.2017 in Appeal No. 226/2016 for redetermination of tariff of the transmission assets for 2013-14 period based on revised COD as the annual accounts for the Petitioner are already settled. The said letter is as follows:



Order in Petition Nos.216/TT/2020, 184/TT/2013 & 146/TT/2016



"ANNEXURE A-1**Ref: ATIL/CERC/07102021****Date: 07.10.2021**

Shri Sanoj Kumar Jha
 Secretary,
 Central Electricity Regulatory Commission,
 3rd & 4th Floor, Chanderlok Building,
 36, Janpath,
 New Delhi-110001

Subject-APTEL judgment dated 08.11.2017 in Appeal No. 226 of 2016

Dear Sir,

ATIL was granted Transmission license No. 20/Transmission/2013/CERC dated 29.07.2013. ATIL had filed Petition No. 184/TT/2013 for determination of tariff for the control period 2009-14 (FY 2013-14). Hon'ble Commission vide order dated 18.03.2016 determined the tariff for the year 2013-14. ATIL filed Appeal no. 226/2016 before the Hon'ble APTEL challenging order of the Commission against certain disallowance of cost and consideration of COD as 01.10.2013 in place of 29.07.2013.

Hon'ble Tribunal, vide its judgment dated 08.11.2017 in appeal no. 226/2016, partly allowed the Appeal and decided the issue of date of commencement of tariff in favour of ATIL. The Hon'ble Tribunal had directed the Hon'ble Commission to pass consequential order and grant tariff considering 29.7.2013 as deemed DOCO/tariff commencement date.

It is pertinent to note ATIL has been managing its operations and accounts in terms of the Hon'ble Commission's order dated 18.03.2016, granting commencement of tariff w.e.f 01.10.2013. Accordingly, the Hon'ble Commission has also determined tariff for the control period 2014-19 vide order dated 03.11.2017 in Petition No 146/TT/2016. ATIL has also filed tariff Petition bearing no 216/TT/2020 for the control period 2019-2020, considering COD as 01.10.2013, which was reserved for order on 28.08.2020. Further, the Annual Accounts of ATIL are already settled. Therefore, ATIL is not inclined to press for the implementation of judgment of the Hon'ble Tribunal for re-determination of tariff based on revised COD.

In view of the above, we request the Hon'ble Commission not to pass consequential order in the above matter.

Your sincerely,

For Adani Transmission (India) Limited

Authorised Signatory

Tanmay Vyas"

5. In view of the Petitioner's letter dated 7.10.2021, Petition No. 184/TT/2013, Petition No.146/TT/2016 and Petition No. 216/TT/2020 were listed for hearing on



Order in Petition Nos.216/TT/2020, 184/TT/2013 & 146/TT/2016



25.11.2021, with a notice to the beneficiaries. The learned senior counsel for the Petitioner submitted that it is not inclined to take the benefit of the APTEL judgment dated 8.11.2017 for re-determination of tariff based on the revised COD, as considerable time has lapsed since the issue of order in Petition No. 184/TT/2013 and that the annual accounts of the Petitioner are already settled. He further submitted that consequential relief of the APTEL judgment dated 8.11.2017 involves opening of books of account of the Petitioner from 2013 onwards and tariff re-determination from the revised COD i.e. 29.7.2013 which is a complex procedure and that it does not accrue any commercial benefit to the Petitioner. He submitted that an affidavit relinquishing the right/ claim of the Petitioner confining to the issue of consideration of COD as 29.7.2013 will be placed on record. He also submitted that the pending Review Petition No.3/2018 before APTEL and Civil Appeal before the Hon'ble Supreme Court against the judgment dated 8.11.2017 in Appeal No. 226/2016 are regarding the disallowance of cost, and is not related to the issue of COD of the transmission assets. He further clarified that the Petitioner will not claim or pursue its relinquished claim regarding COD of the transmission assets as 29.7.2013 in any of the forums for the present or in future through any of the pending cases or future cases. After hearing the Petitioner, the Commission directed the Petitioner to submit a copy of the review petition filed before APTEL and the Civil Appeal filed before Hon'ble Supreme Court by 7.12.2021 on affidavit with a copy to the Respondents. The Respondents were directed to file reply by 14.12.2021 and the Petitioner to file rejoinder, if any, by 21.12.2021. However, none of the Respondents have filed their reply. But MPPMCL vide its letter dated 14.12.2021 sought extension of time to file its reply and was granted time till 29.12.2021 to



file reply. However, no reply has been filed by MPPMCL. Therefore, we proceed to dispose of the instant petition.

6. In compliance of the direction of the Commission vide RoP dated 25.11.2021, the Petitioner has filed an affidavit, dated 4.12.2021, stating that it waives all/ any of its rights and interests in relation to consequential relief that may arise on account of change of date of tariff commencement. The said waiver of relief is for all times and the Petitioner undertakes to not to make claim in this regard at any time in future. The Petitioner has submitted that it has been managing its operations and accounts in terms of the order dated 18.3.2016, granting commencement of tariff w.e.f. 1.10.2013 and the said date of commencement of tariff may continue for the past and future period as has been recognised in the books of the Petitioner. The Petitioner has also filed true copy of the Review Petition No. 3 of 2018 (filed before APTEL) and Civil Appeal Diary No. 4551/2018 (filed before the Hon'ble Supreme Court).

7. We have considered the submissions of the Petitioner. The Commission in order dated 18.3.2016 in Petition No.184/TT/2013 approved COD of the transmission assets as 1.10.2013 against the Petitioner's claim of 29.7.2013, which was the date of grant of transmission licence. The relevant portion of the order dated 18.3.2016 is as follows:

"26.....In our view, the reference date of 1.10.2013 can be taken for determination of tariff for the following reasons. Firstly, the assets were put into use as ISTS after taking into account all the requirements of the system operator like control area jurisdiction, scheduling, metering location, transmission charges and losses under PoC mechanism etc. which were decided in a meeting taken by Chairperson CEA with the attendance of all stakeholders including the representative of the petitioner. Secondly, the transmission charges will be serviced through PoC mechanism with effect from 1.10.2013 as decided in the said meeting. Thirdly, recovery of the transmission charges from the date of grant of licence till 30.9.2013 will no more remain an issue. Fourthly, since the transmission systems of the petitioner were effectively used as dedicated transmission system between 29.7.2013 till 30.9.2013, the petitioner shall continue to recover the charges for the



said period in the same manner it was recovering from the date of actual commissioning till 29.7.2013. Finally, taking 1.10.2013 as the date for determination of tariff will balance the interests of the petitioner and beneficiaries. In view of the above discussion, we decide that the deemed CoD for the purpose of determination of tariff shall be considered as 1.10.2013."

8. The Petitioner filed an Appeal before APTEL against the order dated 18.3.2016 and as stated above, APTEL directed the Commission to consider the date of licence i.e., 29.7.2013, as COD and, accordingly, directed to revise the tariff allowed for the transmission assets. During the intervening period, the Commission had trued up the tariff allowed vide order dated 18.3.2016 and also granted tariff for the 2014-19 tariff period vide order dated 3.11.2017 in Petition No.146/TT/2016. The Petitioner in the instant petition has submitted that it waives its rights and interest that may arise on account of revision of COD and consequent revision of tariff for the present and at any time in future. None of the Respondents have filed any response to the Petitioner's request. As the Petitioner on its own has relinquished the relief granted by APTEL vide judgement dated 8.11.2017 in Appeal No.226 of 2016, COD of the transmission asset is considered as 1.10.2013 (same as in Petition No. 184/TT/2013 and Petition No. 146/TT/2016) and the capital cost and tariff are allowed accordingly. As a result, there is no necessity to revise the tariff granted vide order dated 18.3.2016 in Petition No.184/TT/2013 and tariff trued up vide order dated 3.11.2017 in Petition No.146/TT/2016 for the period 2013-14. We would also like to reiterate that the issue of COD of the transmission assets would not be reopened anytime in future, in terms of affidavit submitted by the Petitioner thereby waiving off its rights and claims in this regard.



9. The Respondents are distribution licensees, power departments and transmission licensees, who are procuring transmission services from the Petitioner, mainly beneficiaries of the Northern Region.

10. The Petitioner has served the petition on the Respondents and notice of this application has also been published in the newspapers in accordance with Section 64 of the Electricity Act 2003. No comments or suggestions have been received from the general public in response to the aforesaid notices published in the newspapers by the Petitioner. Madhya Pradesh Power Management Company Limited (MPPMCL), Respondent No. 10, has filed its reply *vide* affidavits dated 23.5.2020 and 8.6.2020 and has raised issues of admissibility of ACE claimed by the Petitioner on account of SCADA upgradation, 12 ohm reactors and other items, additional O&M Expenses for increased line length of 2 km, etc. The Petitioner *vide* affidavit dated 19.8.2020 has filed rejoinder to the reply of MPPMCL.

11. Tariff for 2014-19 tariff period is being trued-up and tariff for 2019-24 period is being determined in this order taking into consideration the submissions made by the Petitioner in the petition dated 15.10.2019, reply of MPPMCL dated 23.5.2020 and 8.6.2020 and Petitioner's rejoinder dated 19.8.2020, additional information submitted *vide* affidavit dated 9.6.2020, and reply to TV letter dated 16.9.2020 filed *vide* affidavit dated 4.2.2021.

12. Having heard the representatives of the Petitioner and learned counsel for MPPMCL and having careful perusal of the materials on record, we proceed to dispose of the petition.



Truing up of Annual Fixed Charges for the 2014-19 Tariff Period

13. The details of the trued-up transmission charges claimed by the Petitioner in respect of the transmission assets are as follows:

(₹ in lakh)

Particulars	Asset-I				
	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	19274.00	19720.00	19744.00	19750.00	19758.00
Interest on Loan	28780.00	25951.00	27403.00	22959.00	20354.00
Return on Equity	22253.00	22874.00	22905.00	22913.00	22981.00
Interest on working capital	1818.00	1788.00	1834.00	1745.00	1699.00
O & M Expenses	3618.00	3811.00	4018.00	4239.00	4473.00
Total	75744.00	74144.00	75905.00	71605.00	69265.00

(₹ in lakh)

Particulars	Asset-II				
	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	2801.00	2801.00	2801.00	2803.00	2806.00
Interest on Loan	3245.00	2769.00	2822.00	2266.00	1898.00
Return on Equity	3182.00	3198.00	3199.00	3202.00	3213.00
Interest on working capital	277.00	269.00	272.00	262.00	256.00
O & M Expenses	1175.00	1214.00	1255.00	1296.00	1339.00
Total	10681.00	10251.00	10351.00	9832.00	9513.00

14. The details of the trued-up Interest on Working Capital (IWC) claimed by the Petitioner in respect of the transmission assets are as follows:

(₹ in lakh)

Particulars	Asset-I				
	2014-15	2015-16	2016-17	2017-18	2018-19
Maintenance Spares	543.00	572.00	603.00	636.00	671.00
O&M expenses	301.00	318.00	335.00	353.00	373.00
Receivables	12624.00	12357.00	12651.00	11934.00	11544.00
Total	13468.00	13247.00	13588.00	12923.00	12588.00
Rate of Interest (%)	13.50	13.50	13.50	13.50	13.50
Interest on Working Capital	1818.00	1788.00	1834.00	1745.00	1699.00

(₹ in lakh)

Particulars	Asset-II				
	2014-15	2015-16	2016-17	2017-18	2018-19
Maintenance Spares	176.27	182.16	188.19	194.44	200.89
O&M expenses	97.93	101.20	104.55	108.02	111.60
Receivables	1780.14	1708.43	1725.18	1638.70	1585.44
Total	2054.34	1991.79	2017.92	1941.16	1897.93
Rate of Interest (%)	13.50	13.50	13.50	13.50	13.50
Interest on Working Capital	277.34	268.89	272.42	262.06	256.22



Capital Cost

15. The capital cost as on 31.3.2014 and estimated additional capital expenditure incurred or projected to be incurred during 2014-19 as admitted by the Commission vide order dated 3.11.2017 in Petition No. 146/TT/2016 are as follows:

Particulars	Asset-I				
	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Capital Cost	370083.06	386428.06	387437.06	387437.06	387437.06
Additional Capitalisation	16345.00	1009.00	0.00	0.00	0.00
Closing Capital Cost	386428.06	387437.06	387437.06	387437.06	387437.06

(₹ in lakh)

Particulars	Asset-II				
	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Capital Cost	54089.69	54089.69	54089.69	54089.69	54089.69
Additional Capitalisation	0.00	0.00	0.00	0.00	0.00
Closing Capital Cost	54089.69	54089.69	54089.69	54089.69	54089.69

16. The Commission vide order dated 3.11.2017 in Petition No. 146/TT/2016 had held as under:

"10. The petitioner has submitted the separate capital cost of AC and HVAC portions of Asset I duly certified by Statutory Auditor. However, the petitioner has not submitted separate details of additional Capitalisation, undischarged liabilities and FERV with respect to AC and HVAC portions of Asset I. In the absence of this information, it is not possible to work out separate tariff for AC and HVAC portions of Asset I. As such, tariff for Asset I is trued up on consolidated basis for the 2009-14 tariff period and the incentive in respect of HVAC and HVDC portions shall be in proportion to the capital cost of AC and HVDC portion as allowed in order dated 18.3.2016. Further, the tariff for Asset I for the 2014-19 tariff period is also allowed on a consolidated basis and separate tariff for AC and HVDC portions of Asset I shall be allowed at the time of truing up of the 2014-19 tariff on furnishing of the relevant information by the petitioner."

17. The Petitioner in the instant petition has submitted that Asset-I and Asset-II is for the evacuation power from Mundra Power Project to Northern Region (NR) and Western Region (WR), respectively. Accordingly, Asset-I and Asset-II receive availability certificates from NRLDC and WRLDC, respectively. Accordingly, it will be difficult to calculate the availability for the asset as a whole and in turn calculation of transmission charges including incentive will not be possible for the



purpose of revenue calculation and billing. Therefore, the Petitioner has provided details of transmission charges separately for Asset-I and Asset-II.

18. We have considered the submissions of the Petitioner and noted that the Petitioner has not bifurcated the tariff for AC and HVDC portions of Asset-I in the instant true up petition also. Therefore, based on the available information, the capital cost is approved in the instant petition for AC and HVDC portions of Asset-I.

19. The Petitioner in the instant petition has claimed the same capital cost as on 1.4.2014 of ₹370083.06 lakh and ₹54089.69 lakh as on 31.3.2014 for Asset-I and Asset-II respectively as admitted by the Commission vide order dated 3.11.2017 in Petition No.146/TT/2016. Therefore, the capital cost of ₹370083.06 lakh and ₹54089.69 lakh for Asset-I and Asset-II respectively has been considered as opening capital cost as on 1.4.2014 for truing-up of transmission tariff for the 2014-19 tariff period.

Additional Capital Expenditure (ACE):

20. The Commission vide order 3.11.2017 in Petition No.146/TT/2017 had allowed the following ACE on account of spill-over of the expenditure to 2014-19 tariff period related to township and colony at Mohindergarh Sub-station and the Security System, cost escalation, price variation, balance payment for Asset-I:

(₹ in lakh)				
2014-15	2015-16	2016-17	2017-18	2018-19
16345.00	1009.00	0.00	0.00	0.00

21. The Petitioner in the instant true up petition has claimed the following ACE for 2014-19 tariff period:



(₹ in lakh)					
Asset	2014-15	2015-16	2016-17	2017-18	2018-19
Asset-I	16345.00	1009.00	50.00	192.00	81.00
Asset-II	0.00	0.00	57.00	49.00	27.00

22. The Petitioner has claimed ACE in 2014-19 tariff period towards the following items:

2014-19 Tariff Period

(a) Undischarged liabilities and balance/ deferred payment

(b) New items such as:

- (i) Truck mounted hot line washing machine for insulators
- (ii) Silicon Paint Coating on High voltage Insulators
- (iii) Replacement of Porcelain insulator
- (iv) Expenses for installation of security system
- (v) Automatic Power Factor Control (APFC) panel
- (vi) Emergency Restoration System
- (vii) Replacement of Battery Bank
- (viii) Upgradation of Power Line Carrier Communication (PLCC)
- (ix) Liabilities to meet award of arbitration for Land at Sami
- (x) Change of possession of Land

23. Further, the Petitioner has prayed to admit the claimed ACE under applicable clause of Regulation 14(3) of the 2014 Tariff Regulations and has submitted the following justification:

Asset-I

(a) The copies of Auditor's certificates dated 6.8.2016 for 2014-15 and 2015-16 which were submitted while filing Petition No.146/TT/2016, have also been submitted in the instant petition.

(b) The Petitioner had claimed additional capital expenditure during 2014-15 and 2015-16 under Regulations 14(1)(i) and 14(1)(ii) of the 2014 Tariff Regulations. ACE claimed for 2014-15 and 2015-16 are on account of undischarged liabilities and balance/ deferred payment and are within the "cut off" date. Item-wise break-up of additional capitalisation in 2014-15 and 2015-16 are as follows:



(₹ in lakh)

Sr. No.	Particulars	Asset-I	
		2014-15	2015-16
1.	Township & Colony at Mohindergarh	599.00	50.00
2.	Cost Escalation/ PV/ Balance Payment	382.00	140.00
3.	Security System	14.00	148.00
4.	Deferred payment of FERV accruing between 29.7.2013 to 30.9.2013 on LC/ borrowing/ vendor	15350.00	-
5.	Deferred payment of FERV up to 29.7.2013 on vendor payment/ Retention LC	-	671.00
Total		16345.00	1009.00

(c) The Commission vide its order in Petition No.146/TT/2016 approved the above ACE of ₹16345 lakh and ₹1009 lakh in 2014-15 and 2015-16 respectively, for determination of tariff. Therefore, the Petitioner has considered the approved ACE of ₹16345 lakh in 2014-15 and ₹1009 lakh in 2015-16 in the present petition.

(d) The Petitioner has claimed following ACE in 2016-17, 2017-18 and 2018-19:

(₹ in lakh)

Sr. No.	ACE during FY	Amount capitalised/ proposed to be capitalised	Justification	Regulation under which covered
1	2016-17	25.00	Truck mounted hot line washing machine for insulators	14(3)(ix)
2		25.00	Silicon Paint Coating on High voltage Insulators	14(3)(ix)
Sub-total		50.00		
3	2017-18	23.00	Silicon Paint Coating on High voltage Insulators	14(3)(ix)
4		150.00	Replacement of porcelain insulator	14(3)(ix)
5		19.00	Expenses for installation of security system for efficient operation of transmission system	14(3)(ix)
Sub-total		192.00		
6	2018-19	52.00	APFC panel for successful and efficient operation of transmission system	14(3)(ix)
7		15.00	Emergency restoration system	14(3)(ix)
8		14.00	Replacement of porcelain insulator	14(3)(ix)
Sub-total		81.00		

(e) Reasoning/ justification submitted by the Petitioner for ACE in 2016-17, 2017-18 and 2018-19 is as follows:



(i) *Truck mounted hot line washing machine for insulators*: The insulators of lines & equipment are contaminated due to dust, birds' droppings, chemical pollution, saline weather etc. The contaminated insulators are susceptible for flashover during humid atmosphere, dew or foggy weather etc. Hence, there is a need to clean it periodically. The Petitioner was facing frequent failure and disturbances in HVDC line and to minimise it, the Petitioner decided to develop insulator cleaning infrastructure and purchased truck mounted hotline washing machine for insulators.

(ii) *Silicon Paint Coating on High Voltage Insulators*: Corrosion and pollution of outdoor high voltage insulators is a common problem for utilities, with a considerable impact to power system reliability. A possible outage in a high voltage system usually corresponds to a severe impact to the power system. To prevent the possible flashovers due to corrosion and pollution, high voltage insulation coating is done, aiming to improve the insulation performance, either by suppressing the formation of surface conductivity or by increasing the possible insulation level. Since the Petitioner's HVDC lines are in coastal area, there are issues of corrosion and subsequent failures of insulators and, hence, the Petitioner has carried out the silicon painting in HVDC sub-station equipment to avoid tripping due to dust and corrosion.

(iii) *Replacement of porcelain insulator*: The transmission lines of the Petitioner are around the humid area of Gujarat. Due to humid weather conditions near creek area in Gujarat section, dust film is forming on insulators, which creates a conducting path between conductors and the tower and same leads to frequent disturbances in power equipment. Further, as result of higher pollution level, frequent tripping of lines, especially those passing through creek and polluted area. Despite taking regular maintenance measures, including cleaning of insulators in critical stretches every year, tripping in some of the portion is matter of concern. To overcome this, the Petitioner has replaced



Porcelain Insulators with Silicon Rubber Insulators in humid areas, to avoid frequent disturbance in power evacuation through HVDC line.

(iv) *Expenses for installation of security system for efficient operation of transmission system:* The Mundra-Mohindergarh transmission system has been facing regular incidents of conductor theft in electrode line. Due to this, there has been frequent tripping of Mundra-Mohindergarh HVDC pole. In order to minimise theft, the Petitioner had deputed many security guards but it was not effective. There were few incidents where sudden outage of system had resulted into the restriction of power flow and ultimately hampered the system security and stability. Therefore, in order to resolve the situation permanently, it has been decided to install electronics online monitoring system.

(v) *Automatic Power Factor Control (APFC) panel for successful and efficient operation of transmission system:* It is pertinent to note that the Petitioner was facing the issue of Low Power Factor i.e. 75%. Low Power Factor draws a higher internal current and the excessive heat generated can damage and/or shorten equipment life. At low power factor, the higher current gives rise to copper losses in the system and the efficiency of the system gets reduced. Therefore, the Petitioner decided to install APFC system to improve Power Factor.

(vi) *Emergency Restoration System:* To mitigate any natural calamities or unforeseeable events such as sabotage and to restore the system within minimum time period, an Emergency Restoration System (ERS) was procured. This will enhance reliability and stability of transmission system.

(f) The Certificates of Chartered Accountant with respect to Additional Capitalisation in 2016-17, 2017-18 and 2018-19 are filed.

Asset-II

(a) The Petitioner has claimed the following ACE during 2016-17, 2017-18 and 2018-19:



(₹ in lakh)				
Sr. No.	ACE during FY	Amount capitalised/ proposed to be capitalised	Justification	Regulation under which covered
1	2016-17	7.00	Replacement of Battery Bank	14(3)(ix)
2		50.00	Upgradation of power line carrier communication	14(3)(ix)
Sub-total		57.00		
3	2017-18	22.00	Change of possession of Land	14(3)(vii)
4		19.00	Expenses for installation of security system for efficient operation of transmission system	14(3)(ix)
5		8.00	Upgradation of power line carrier communication	14(3)(ix)
Sub-total		49.00		
6	2018-19	27.00	Liabilities to meet award of arbitration for Land at Sami	14(3)(i)

(b) Reasoning/ justification submitted by the Petitioner for ACE in 2016-17, 2017-18 and 2018-19 are as follows:

(i) *Expenses for installation of security system for efficient operation of transmission system*: The Mudra-Sami-Dehgam transmission system has been facing regular incidents of conductor theft in electrode line. Due to this, there has been frequent tripping of transmission line. In order to minimise theft, Petitioner had deputed many security guards but it was not effective. There were few incidents where sudden outage of system had resulted into the restriction of power flow and ultimately hampered the system security and stability. Therefore, in order to resolve the situation permanently, it has been decided to install electronics online monitoring system.

(ii) *Replacement of Battery Bank*: The Battery Bank's life has expired and it has started failing. So, it was decided to replace the complete Battery Bank to maintain reliability of the system.

(iii) *Upgradation of Power Line Carrier Communication (PLCC)*: The Petitioner had installed BPL make PLCC panels at Mundra-Sami-Dehgam. However, BPL has stopped their operations and was not providing the services. The BPL make panels are also very old and



many mal-operations were observed and, therefore, the Petitioner decided to replace PLCC panels with ABB make panels for efficient operation of transmission system.

(iv) *Liabilities to meet award of arbitration for land at Sami:* The Petitioner paid settlement charges to purchase land measuring 1580 sq. mt. at 400 kV Switching Station, Sami.

(v) *Change of possession of land:* Some portion of land was not in possession of the Petitioner. Therefore, it was decided to change the ownership to the Petitioner and incurred the expense of ₹22 lakh.

24. MPPMCL, vide affidavit dated 8.6.2020 has submitted the following in respect of truing up of tariff for 2014-19 period for the transmission assets:

Asset-I

(a) The Petitioner has claimed true-up of tariff without clearly specifying the net over-expenditure against the approved ACE. In absence of a clear component-wise over-expenditure and under-expenditure as against those "Allowed on Estimated Basis" in Petition No. 146/TT/2016, a prudent true up exercise may not be possible. The Petitioner should be directed to submit the said details on affidavit to enable prudence check.

(b) The "cut-off date" of the transmission assets was 31.3.2016. Since ACE is said to have been made after the cut-off date, i.e., during 2017 and 2019, the same are not admissible in view of Regulation 14 of the 2014 Tariff Regulations.

(c) The claim of ₹25 lakh towards additional capitalization of Truck Mounted Hot Line Washing Machine for Insulators is not a capital expenditure but is a part of O&M Expenses already allowed on Normative Basis vide order dated 3.11.2017 in Petition No. 146/TT/2016. The Petitioner cannot claim it separately as ACE. Furthermore, the said expenditure was not included in the original scope of work and has been made after the cut-off date. The said expenditure is not of the nature of necessary or genuine expenditure which could not be avoided and a prior



approval of the same was not sought from the Commission. The said expenditure is not covered under Regulation 14 of the 2014 Tariff Regulations. Hence, the Petitioner's claim on this count be disallowed.

(d) ACE of ₹48 lakh towards Silicon Paint Coating on High Voltage Insulators is said to have been incurred after the cut-off date of 31.3.2016 and was not included in the original scope of work. Prior approval of the Commission and consent of the beneficiaries was not obtained by the Petitioner while incurring such expenditure. Even otherwise after incurring these expenditures, the Petitioner would obviously get compensated by way of savings in O&M expenses and repairs. The said expenditure is not covered under Regulation 14 of the 2014 Tariff Regulations. Hence, it may be disallowed.

(e) The Petitioner has claimed an ACE of ₹164 lakh towards replacement of Porcelain Insulators. This expenditure was also not envisaged in the original scope of work. It is an expenditure included under Repairs and Maintenance and is not a capital expenditure. Prior approval of the Commission and consent of the beneficiaries was not obtained by the Petitioner while incurring such expenditure. Even otherwise after incurring these expenditures, the Petitioner would obviously get compensated by way of savings in O&M expenses and repairs. The said expenditure is not covered under Regulation 14 of the 2014 Tariff Regulations. Hence, it may be disallowed.

(f) The Petitioner has further claimed ₹19 lakh towards installation of Security System for Efficient Operation of Transmission System; ₹52 lakh towards APFC Panel for Successful and Efficient Operation of Transmission System; and ₹15 lakh towards Emergency Restoration System. ACE on these heads stands considered vide earlier order dated 18.3.2016. By way of present petition, the Petitioner cannot seek a review of said order in the garb of a true up. These expenditure are not covered under Regulation 14 of 2014 Tariff Regulations. Hence, these may be disallowed.



(g) The Petitioner's claim of ₹19 lakh towards Installation of Security System for Efficient Operation of the Transmission System, being after the cut-off date is contrary to the provisions of Regulation 14 of the 2014 Tariff Regulations. The said expenditure was not declared earlier as a deferred capital expenditure. The Petitioner has not demonstrated any instance of conductor theft and has also not brought on record any First Information Report, if any, lodged by it for alleged theft of conductor in Mundra-Sami-Dehgam Transmission system. There is no bona fide basis for the Petitioner to claim this expense. The expense is not genuine and hence, may be disallowed.

Asset-II

(a) The Petitioner has claimed ACE of ₹7 lakh towards replacement of the entire Battery Bank, alleging that it has completed its life and has started failing. The Petitioner has failed to regularly maintain the batteries in the bank and has not provided timely maintenance to the bank. Even otherwise, in the original scope of the project, the capitalization towards Battery Bank was made for the entire life of the project. Additional Capitalization on this count would lead to additional recovery from the beneficiaries and result in undue tariff hike. The Petitioner may meet the said expense from Repairs & Maintenance Cost allowed to it. The Petitioner should have considered the Battery Bank's life in consultation with its provider at the initial stage in the original scope of work and claimed reasonable capitalization at the initial stage. Therefore, such a claim at this stage is not just and proper and may not be allowed.

(b) The Petitioner's claim of ₹58 lakh towards alleged Upgradation of Power Line Carrier Communication does not meet the requisites of Regulation 14 of the 2014 Tariff Regulations. The Petitioner has failed to bring on record any communication from BPL to the effect that they have stopped their operations and were not providing the services. Even otherwise, the beneficiaries cannot be saddled with the consequences of BPL in untimely stopping its services. The Petitioner ought to have made due representations at appropriate redressal forum in this respect and



sought proper redressal. Such a redressal cannot be claimed by way of servicing the same in tariff on beneficiaries. Replacement of BPL make panels with PLCC panels is not a mandatory or regulatory requirement. Hence, may be dismissed.

(c) In respect of ₹27 lakh claimed by the Petitioner towards liabilities to meet the Arbitration Award of land at Sami is not supported by the certified copy of the Arbitration Award and a Satisfaction Certificate of the same. The mention of such deferred liability was also not made in the earlier tariff petitions by the Petitioner and the same was also not approved earlier by the Commission. The said claim is contrary to the provisions of Regulation 14 of the 2014 Tariff Regulations and, hence, may be dismissed.

(d) The Petitioner's claim of ₹22 lakh towards change in possession of land is baseless. The Petitioner had not disclosed this deferred liability at the initial stage. It has failed to produce on record as to from whom it has procured the said land and at which price. The Petitioner has failed to establish as to how it could take possession of the land without having prior right and title or lease / license over it. The Petitioner has not disclosed the description of the said land and its usage in the project. The claim is not bona fide and is contrary to provisions of Regulation 14 of the 2014 Tariff Regulations. Hence, may be disallowed.

25. In response, the Petitioner filed its rejoinder *vide* affidavit dated 18.8.2020 and reiterated the submissions made in the petition and we are not repeating here for the sake of brevity.

26. The Petitioner was directed *vide* TV letter dated 16.9.2020 to clarify the reasons for not claiming ACE in 2016-17, 2017-18 and 2018-19 in Petition No.146/TT/2016 and also to clarify whether ACE claimed beyond the cut-off date is within the original scope of work.

27. In response, the Petitioner *vide* affidavit dated 4.2.2021 has submitted



following:

- (a) At the time of filing Petition No. 146/TT/2016 (i.e., on 11.8.2016), the Petitioner had submitted the details of ACE on actual basis only for 2014-15 and 2015-16, and estimated basis for the remaining years. The Petitioner has claimed ACE in 2016-17, 2017-18 and 2018-19 in the present petition in accordance with the 2014 Tariff Regulations. The said Regulations specifically contain provisions for claiming this type of expenditure on actual basis.
- (b) The Petitioner has submitted the Certificate of Statutory Auditor with respect to ACE in 2016-17, 2017-18 and 2018-19.
- (c) Further, the Petitioner has submitted that the details of ACE claimed by the Petitioner beyond the 'cut-off date' have been mentioned in the petition.
- (d) The Petitioner has outlined the reasons as to why ACE is necessary for successful and efficient operation of transmission system qua Asset-I and Asset-II. It is clear from the pleadings that these works could not have been part of the Original Scope of Work.

28. We have considered the submissions made by the Petitioner and MPPMCL. The Commission in order dated 3.11.2017 in Petition No. 146/TT/2016 approved ACE of ₹16345 lakh and ₹1009 lakh for 2014-15 and 2015-16 respectively for Asset-I. The same ACE has been claimed by the Petitioner at the true up stage in the instant petition. Accordingly, ACE of ₹16345 lakh and ₹1009 lakh for 2014-15 and 2015-16 respectively, for Asset-I has been considered for determination of trued-up tariff. No ACE in respect of Asset-II for the period 2014-15 and 2015-16 was claimed by the Petitioner in Petition No. 146/TT/2016.

29. As regard ACE for the period 2016-17 to 2018-19, MPPMCL has contended that ACE claimed by the Petitioner in respect of Asset-I in 2016-17, 2017-18 and



2018-19 towards Truck Mounted Hot Line Washing Machine for Insulators, Silicon Paint Coating on high voltage insulators, replacement of porcelain insulators, expenses for installation of Security System for efficient operation of transmission system, expenses on APFC Panel etc. are part of O&M expenses and are not of capital nature. Further, the said expenditure was not included in the original scope of work and same not being genuine or bona fide or necessary, may be disallowed. Similarly, ACE claimed in case of Asset-II in 2017-18 and 2018-19 on account of installation of security system, replacement of battery bank, upgradation of Power Line Carrier Communication, liabilities to meet award of Arbitration for land at Sami Sub-station and expenses towards change of possession of land are not bona fide and are also liable to be rejected. MPPMCL has also submitted that no satisfaction certificate has been filed by the Petitioner for the liability because of the arbitration award of land at Sami. Hence, the claim towards change in the possession of land may be disallowed.

30. The Petitioner has submitted that ACE during 2016-17, 2017-18 and 2018-19 is beyond the cut-off date of 31.3.2016 and the same is claimed under Regulations 14(3)(vii) and 14(3)(ix) of the 2014 Tariff Regulations. The Petitioner has submitted Auditor certificate in support of ACE in 2016-17, 2017-18 and 2018-19 for the transmission assets.

31. ACE claimed for Asset-I is on account of expenses involved in changing of equipment at the sub-stations, installation of cleaning infrastructure and replacement of porcelain insulators due to excessive corrosion because of a nearby creek. ACE in case of Asset- II is due to replacement of battery banks and obsolescence of technology and non-availability of servicing facility of PLCC equipment of BPL make, which were replaced with panels made by ABB for



efficient operation.

32. The Petitioner has submitted that the contaminated insulators were susceptible to flashover during humid conditions or foggy weather and, therefore, there was a need for periodic cleaning. Accordingly, the Petitioner developed deep insulator cleaning mechanism and purchased truck mounted hotline washing machine for insulators. Therefore, the expenditure towards them was not anticipated in the original scope and were required to be carried out beyond 'cut-off date'. The Petitioner has submitted that ACE claimed by the Petitioner is justified to ensure smooth and continuing operations as the transmission assets are over a decade old.

33. ACE claimed by the Petitioner vide affidavit dated 4.2.2021 is as follows:

Asset-I

				(₹ in lakh)
Sr. No.	ACE during FY	Amount capitalised/ proposed to be capitalised	Justification	Regulation under which covered
1	2016-17	25.00	Truck mounted hot line washing machine for insulators	14(3)(ix)
2		25.00	Silicon Paint Coating on High voltage Insulators	14(3)(ix)
Sub-total		50.00		
3	2017-18	23.00	Silicon Paint Coating on High voltage Insulators	14(3)(ix)
4		133.00	Replacement of porcelain insulator	14(3)(ix)
5		20.00	Expenses for installation of security system for efficient operation of transmission system	14(3)(ix)
Sub-total		176.00		
6	2018-19	52.00	APFC panel for successful and efficient operation of transmission system	14(3)(ix)
7		14.00	Replacement of porcelain insulator	14(3)(ix)
Sub-total		66.00		
Total (Asset-I)		292.00		

Asset-II

(₹ in lakh)				
Sr. No.	ACE during FY	Amount capitalised/ proposed to be	Justification	Regulation under which covered



		capitalised		
1	2016-17	7.00	Replacement of Battery Bank	14(3)(ix)
2		50.00	Upgradation of power line carrier communication	14(3)(ix)
Sub-total		57.00		
3	2017-18	22.00	Change of possession of Land	14(3)(vii)
4		19.00	Expenses for installation of security system for efficient operation of transmission system	14(3)(ix)
5		8.00	Upgradation of power line carrier communication	14(3)(ix)
Sub-total		49.00		
6	2018-19	27.00	Liabilities to meet award of arbitration for Land at Sami	14(3)(i)
		15.00	Emergency restoration system	14(3)(ix)
Sub-total		42.00		
Total (Asset-II)		148.00		

34. Regulation 14(3)(vii) and Regulation 14(3)(ix) of the 2014 Tariff Regulations provides as follows:

"14. Additional Capitalisation and De-capitalisation:

(3) The capital expenditure, in respect of existing generating station or the transmission system including communication system, incurred or projected to be incurred on the following counts after the cut-off date, may be admitted by the Commission, subject to prudence check:

xxxxxxx xxxxx xxxxx

(vii) Any additional capital expenditure which has become necessary for efficient operation of generating station other than coal/lignite based stations or transmission system as the case may be. The claim shall be substantiated with the technical justification duly supported by the documentary evidence like test results carried out by an independent agency in case of deterioration of assets, report of an independent agency in case of damage caused by natural calamities, obsolescence of technology, up-gradation of capacity for the technical reason such as increase in fault level;

xxxxxxx xxxxx xxxxx

ix) In case of transmission system, any additional expenditure on items such as relays, control and instrumentation, computer system, power line carrier communication, DC batteries, replacement due to obsolescence of technology, replacement of switchyard equipment due to increase of fault level, tower strengthening, communication equipment, emergency restoration system, insulators cleaning infrastructure, replacement of porcelain insulator with polymer insulators, replacement of damaged equipment not covered by insurance and any other expenditure which has become necessary for successful and efficient operation of transmission system;"

35. The O&M Expenses is defined under the 2014 Tariff Regulations as follows:



“42) ‘Operation and Maintenance Expenses or ‘O&M expenses’ means the expenditure incurred for operation and maintenance of the project, or part thereof, and includes the expenditure on manpower, repairs, maintenance spares, consumables, insurance and overheads but excludes fuel expenses and water charges;”

36. The Commission vide order dated 3.11.2017 in Petition No. 146/TT/2016 has considered ACE during 2014-19 within the cut-off date, i.e. in 2014-15 and 2015-16. The Petitioner has not submitted Form-5 for the tariff period 2014-19 in case of Asset-I and Asset-II. It is observed that the Petitioner is claiming ACE towards obsolescence of technology even before completion of the useful life of the transmission assets. It is also observed that the works are beyond original scope of work and the Petitioner has not submitted any test reports duly certified by independent agency which is required if the Petitioner is claiming ACE under Regulation 14(3)(vii) of the 2014 Tariff Regulations. The Petitioner has not submitted recommendations of OEM with respect to obsolescence of technology and up-gradation of equipment and also not submitted any approval of SCM/ RPC or approval of beneficiaries. Further, it is also observed that the expenditure claimed by the Petitioner under the head ACE, which is beyond cut-off date in 2016-17, 2017-18 and 2018-19, is towards operation and maintenance of the transmission assets and, hence, should be met from the approved O&M Expenses.

37. As regards ACE claimed in respect of porcelain insulators for 2017-18 and 2018-19 for Asset-I, there is a difference between the amount claimed initially in the petition and claimed vide affidavit dated 4.2.2021 in response to TV letter. The same has been summarised in the following table:

(₹ in lakh)			
Particulars	Year	Amount claimed at the time of filing of	Amount claimed vide affidavit



		instant petition	dated 4.2.2021
Replacement of porcelain insulators	2017-18	150.00	133.00
	2018-19	14.00	14.00

38. We note that consent of the beneficiaries for replacing the existing insulators has not been obtained. The Petitioner has also not submitted any approval of RPC for replacement of the existing insulators. Also, the Petitioner has not submitted the details of the de-capitalisation of existing porcelain insulators in any of the tariff forms. As such, we are not inclined to allow ACE towards this item. However, we have not gone into the merit of ACE claimed towards replacement of porcelain insulators.

39. The reasons of ACE disallowed during 2016-17 to 2018-19 is as follows:

Asset-I

(₹ in lakh)

Sl. No.	ACE during FY	Amount capitalised/ proposed to be capitalised (claimed vide affidavit dated 4.2.2021)	Justification submitted by petitioner	Regulation under which ACE claimed	Reasons for allowing/ not allowing ACE
1	2016-17	25.00	Truck mounted hot line washing machine for insulators	14(3)(ix)	O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff Regulations.
2		25.00	Silicon Paint Coating on High voltage Insulators	14(3)(ix)	O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff Regulations.
3	2017-18	23.00	Silicon Paint Coating on High voltage Insulators	14(3)(ix)	O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff Regulations.
4		133.00	Replacement of porcelain insulator	14(3)(ix)	Not allowed.
5		20.00	Expenses for installation of security system	14(3)(ix)	O&M in nature and not allowable under Regulation



Sl. No.	ACE during FY	Amount capitalised/ proposed to be capitalised (claimed vide affidavit dated 4.2.2021)	Justification submitted by petitioner	Regulation under which ACE claimed	Reasons for allowing/ not allowing ACE
			for efficient operation of transmission system		14(3)(ix) of the 2014 Tariff Regulations.
6	2018-19	52.00	APFC panel for successful and efficient operation of transmission system	14(3)(ix)	Not submitted any Test reports or any OEM certificate.
7		14.00	Replacement of porcelain insulator	14(3)(ix)	Not Allowed.

Asset-II

(₹ in lakh)

Sr. No.	ACE during FY	Amount capitalised/ proposed to be capitalised claimed vide affidavit dated 4.2.2021	Justification submitted by Petitioner	Regulation under which covered	Reasons for allowing/ not allowing ACE
1	2016-17	7.00	Replacement of Battery Bank	14(3)(ix)	Not submitted any Test reports or any OEM certificate. Not allowed.
2		50.00	Up-gradation of power line carrier communication	14(3)(ix)	Not submitted RPC/SCM approval. Not allowed.
3	2017-18	22.00	Change of possession of Land	14(3)(vii)	Not submitted documentary proof. Not allowed.
4		19.00	Expenses for installation of security system for efficient operation of transmission system	14(3)(ix)	O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff Regulations.
5		8.00	Up-gradation of power line carrier communication	14(3)(ix)	Not Submitted RPC/SCM approval. Not allowed.
6	2018-19	27.00	Liabilities to meet award of arbitration for land at Sami	14(3)(i)	Not submitted any documentary evidence. Not allowed.
7		15.00	Emergency restoration system	14(3)(ix)	O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff



Sr. No.	ACE during FY	Amount capitalised/ proposed to be capitalised claimed vide affidavit dated 4.2.2021	Justification submitted by Petitioner	Regulation under which covered	Reasons for allowing/ not allowing ACE
					Regulations.

Capital cost for the tariff period 2014-19

40. In view of the above, the capital cost allowed as on 31.3.2019 for tariff purpose at the time of truing up is as follows:

Asset	Capital cost allowed as on 1.4.2014	ACE allowed					(₹ in lakh)
		2014-15	2015-16	2016-17	2017-18	2018-19	Total capital cost allowed as on 31.3.2019
Asset-I	370083.06	16345.00	1009.00	0.00	0.00	0.00	387437.06
Asset-II	54089.69	0.00	0.00	0.00	0.00	0.00	54089.69

41. The details of capital cost allowed for the transmission assets *vide* order dated 3.11.2017 in Petition No. 146/TT/2016, claimed by the Petitioner in the instant petition and trued up in the instant order is as follows:

Asset-I	Capital cost as on 1.4.2014	ACE	Total Capital cost including ACE as on 31.3.2019
		2014-19	
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	370083.06	17354.00	387437.06
As claimed by the Petitioner in the instant petition	370083.06	17646.00	387729.06
Allowed after truing up in this order	370083.06	17354.00	387437.06

Asset-II	Capital cost as on 1.4.2014	ACE	Total Capital cost including ACE as on 31.3.2019
		2014-19	
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	54089.69	0.00	54089.69
As claimed by the Petitioner in the instant petition	54089.69	148.00	54237.69
Allowed after truing up in this order	54089.69	0.00	54089.69

Debt-Equity Ratio

42. The debt-equity ratio of 70:30 as on 31.3.2014 was admitted *vide* order



dated 3.11.2017 in Petition No. 146/TT/2016. The Petitioner has claimed the debt-equity ratio of 70:30 as on 1.4.2014. Further, for the purpose of ACE, debt-equity ratio has been considered in accordance with Regulation 19(3) of the 2014 Tariff Regulations. The details of debt-equity ratio in respect of the transmission assets as on 1.4.2014 and as on 31.3.2019 are as follows:

Funding Asset-I	Capital Cost as on 1.4.2014		Capital Cost as on 31.3.2019	
	Amount (₹ in lakh)	(%)	Amount (₹ in lakh)	(%)
Debt	259058.14	70.00	271205.94	70.00
Equity	111024.92	30.00	116231.12	30.00
Total	370083.06	100.00	387437.06	100.00

Funding Asset-II	Capital Cost as on 1.4.2014		Capital Cost as on 31.3.2019	
	Amount (₹ in lakh)	(%)	Amount (₹ in lakh)	(%)
Debt	37862.78	70.00	37862.78	70.00
Equity	16226.91	30.00	16226.91	30.00
Total	54089.69	100.00	54089.69	100.00

Depreciation

43. The depreciation has been allowed as per the methodology provided in Regulation 27 of the 2014 Tariff Regulations. Depreciation has been allowed considering capital expenditure as on 1.4.2014 and approved ACE during the 2014-19 tariff period. The value of freehold land in respect of Asset-I and Asset-II as considered in order dated 3.11.2017 in Petition No. 146/TT/2016 has been considered in the instant order. The Gross Block during the 2014-19 tariff period has been depreciated at weighted average rate of depreciation (WAROD) and working of WAROD is at Annexure-I. The depreciation for the 2014-19 period is trued-up for the transmission assets as per the methodology provided in Regulation 27 of the 2014 Tariff Regulations and the same is as follows:

(₹ in lakh)					
Asset-I					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Gross Block	370083.06	386428.06	387437.06	387437.06	387437.06
Additional Capitalisation	16345.00	1009.00	0.00	0.00	0.00
Closing Gross Block	386428.06	387437.06	387437.06	387437.06	387437.06
Average Gross Block	378255.56	386932.56	387437.06	387437.06	387437.06



Freehold Land	6070.00	6070.00	6070.00	6070.00	6070.00
Weighted Average Rate of Depreciation (WAROD) (%)	5.09	5.09	5.09	5.09	5.09
Balance useful life of the asset at the beginning of the year (Year)	28	27	26	25	24
Lapsed life of the asset at the beginning of the year (Year)	1	2	3	4	5
Aggregated Depreciable Value	334967.00	342776.30	343230.35	343230.35	343230.35
Depreciation during the year	19258.75	19704.10	19727.01	19727.01	19727.01
Cumulative Depreciation at the end of the year	48678.74	68382.84	88109.85	107836.85	127563.86
Remaining Aggregated Depreciable Value at the end of the Year	286288.26	274393.46	255120.51	235393.50	215666.50

(₹ in lakh)

Asset-II					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Gross Block	54089.69	54089.69	54089.69	54089.69	54089.69
Additional Capitalisation	0.00	0.00	0.00	0.00	0.00
Closing Gross Block	54089.69	54089.69	54089.69	54089.69	54089.69
Average Gross Block	54089.69	54089.69	54089.69	54089.69	54089.69
Freehold land	742.00	742.00	742.00	742.00	742.00
Weighted Average Rate of Depreciation (WAROD) (%)	5.16%	5.16%	5.16%	5.16%	5.16%
Balance useful life of the asset at the beginning of the year (Year)	28	27	26	25	24
Lapsed life of the asset at the beginning of the year (Year)	5	6	7	8	9
Aggregated Depreciable Value	48012.92	48012.92	48012.92	48012.92	48012.92
Depreciation during the year	2793.33	2793.33	2793.33	2793.33	2793.33
Cumulative Depreciation at the end of the year	13804.30	16597.62	19390.95	22184.27	24977.60
Remaining Aggregated Depreciable Value at the end of the Year	34208.62	31415.30	28621.97	25828.65	23035.32

44. The details of the depreciation allowed vide order dated 3.11.2017 in Petition No. 146/TT/2016, claimed by the Petitioner in the instant petition and trued up in the instant order is as follows:



Asset-I					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	19265.49	19710.82	19733.74	19733.74	19733.74
Claimed by the Petitioner in the instant petition	19274.00	19720.00	19744.00	19750.00	19758.00
Allowed after true-up in this order	19258.75	19704.10	19727.01	19727.01	19727.01

(₹ in lakh)

Asset-II					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	2801.08	2801.08	2801.08	2801.08	2801.08
Claimed by the Petitioner in the instant petition	2801.00	2801.00	2801.00	2806.00	2806.00
Allowed after true-up in this order	2793.33	2793.33	2793.33	2793.33	2793.33

Interest on Loan (IoL)

45. The Petitioner has submitted that IOL is calculated for 2014-15 to 2018-19 as prescribed in Regulations 26 of the 2014 Tariff Regulations. The Petitioner has considered the actual loan portfolio for the purpose of deriving actual weighted average interest rates during 2014-15 to 2018-19. The repayment is considered equal to the depreciation for the year. The calculation of Weighted Average interest rate based on actual loan portfolio is attached as Form 9C of true up formats.

46. The Petitioner was directed *vide* Technical Validation (TV) letter dated 16.9.2020 to furnish Form-9C indicating asset-wise loan details and copies of Loan Agreement and repayment schedule in respect of loans indicated in form 9C including inter-company deposit (ICD) for both the assets.

47. In response, the Petitioner vide affidavit dated 4.2.2021 has submitted that since the loans are not asset-specific, any allocation of bans on any acceptable/



rationale basis like proration based on hard cost etc. leads to the same weighted average rate of interest on loan portfolio for each asset. With regard to the submission of copies of Loan Agreement and repayment schedule in respect of loans indicated in form 9C, the Petitioner has submitted that it has got Form 9C audited by the Statutory Auditor.

48. The Petitioner was directed to provide the reasons for availing loan from Inter-company deposit (ICD) instead of bank or any other financial institutions.

49. In response, the Petitioner has submitted that the Petitioner had filed Petition No 184/TT/2013 on 5.9.2013 for determination of tariff for the control period 2009-14 for Mundra-Mohindergarh transmission asset. During the pendency of the said petition, starting in 2015, the lenders had held several meetings and raised concerns about lower Debt Service Coverage Ratio [DSCR] which was less than 1 during the said period. During the meetings, the lenders had also raised concern about growing NPAs in the power sector and stated to be stricter in monitoring of the projects, going forward with increase in the rate of interest by 1% with revised terms and conditions. The additional 1% rate of interest would have taken the loan portfolio close to 13.5%. The Petitioner explored the possibility of availing loan through various other lenders. However, alternate lenders were not willing to make available finances for replacement of loan at better rates. PFC rate schedule for 2013-14 i.e., the rate of interest for finance to Private Sector Borrowings to Transmission Sector entities for three years was 13.50%. A copy of the PFC rate schedule is submitted with affidavit. While the Petitioner was still negotiating with the lenders, in view of the persistence pressure from the lenders, the Petitioner requested its group



company to explore funding from the market. Thereafter, the Group entity offered loan to the Petitioner at a rate lower than the existing loan portfolio as follows:

Particulars	Rate of Interest (per annum)
Rate of Interest*	12.50%

** Additional 0.75% of interest rate shall be charged from next financial year i.e. w.e.f. 01.04.2016 in case of disallowance of Capital Cost, by Hon'ble CERC, is more than 2% of the claimed capital cost by ATIL for Mundra-Mohindergarh & Mundra-Sami-Dehgam Assets.*

50. The Petitioner has further submitted that the Petitioner entered into the agreement with the Group Company with flexibility in drawl of funds. As the lenders sought to revise the terms and conditions including increase in rate of interest by 1%, the Petitioner repaid the then existing Rupee Term Loan (RTL) with loan arranged from the group company. Under the compelling circumstances, the Petitioner agreed to the above terms of the loan of ICD. Based on the study of tariff orders in case of other utilities, the Petitioner had anticipated that its entire capital cost shall be allowed by this Commission and the benefit of lower rates (12.5%) would be passed on to the end consumers. A copy of ICD loan agreement is submitted with the affidavit.

51. We have considered the submissions of the Petitioner and observe that the Weighted Average Rate of Interest (WAROI) claimed by the Petitioner for computing IOL for transmission assets for the period 2015-16 to 2018-19 is in the range of 12.22% to 14.20%. It is also observed that the Petitioner has availed ICD from its group company instead of taking loan from bank or any other financial institutions. The Petitioner has furnished the copy of ICD loan agreement executed with group company which reveals that the said agreement was executed on 31.7.2015. Further, the Petitioner had filed Petition No. 146/TT/2016 for determination of tariff for 2014-19 tariff period for the transmission assets on



9.8.2016. However, the Petitioner had not disclosed this arrangement of availing ICD loan from group company viz. Adani Transmission Limited while claiming the tariff for 2014-19 tariff period in Petition No. 146/TT/2016. The Petitioner now in the instant true-up petition has disclosed this ICD loan agreement executed on 31.7.2015. The Petitioner should have brought to the notice of the Commission this ICD loan agreement in Petition No. 146/TT/2016, filed for determination of tariff for 2014-19 tariff period for the instant assets. Further, the submissions/justifications made for availing ICD loan from group company viz. Adani Transmission Limited instead of any bank or any other financial institutions in the instant true-up petition by the Petitioner does not appear convincing. Therefore, WAROI of 12.22% (the lowest WAROI claimed among the 5 years of 2014-19 tariff period) has been considered for truing up of IOL for the period 2015-16 to 2018-19 for the transmission assets.

52. Accordingly, IoL is computed in accordance with Regulation 26 of the 2014 Tariff Regulations. The details of IoL calculated in respect of the transmission assets are as follows:

(₹ in lakh)

Asset-I					
Particular	2014-15	2015-16	2016-17	2017-18	2018-19
Gross Normative Loan	259058.14	270499.64	271205.94	271205.94	271205.94
Cumulative Repayments up to Previous Year	29419.99	48678.74	68382.84	88109.85	107836.85
Net Loan-Opening	229638.15	221820.90	202823.10	183096.09	163369.09
Addition due to Additional Capitalization	11441.50	706.30	0.00	0.00	0.00
Repayment during the year	19258.75	19704.10	19727.01	19727.01	19727.01
Net Loan-Closing	221820.90	202823.10	183096.09	163369.09	143642.08
Average Loan	225729.52	212322.00	192959.59	173232.59	153505.58
Weighted Average Rate of Interest on Loan (%)	12.75	12.22	12.22	12.22	12.22
Interest on Loan	28781.38	25945.75	23579.66	21169.02	18758.38

(₹ in lakh)

Asset-II					
Particular	2014-15	2015-16	2016-17	2017-18	2018-19



Gross Normative Loan	37862.78	37862.78	37862.78	37862.78	37862.78
Cumulative Repayments up to Previous Year	11010.97	13804.30	16597.62	19390.95	22184.27
Net Loan-Opening	26851.81	24058.49	21265.16	18471.84	15678.51
Addition due to Additional Capitalization	0.00	0.00	0.00	0.00	0.00
Repayment during the year	2793.33	2793.33	2793.33	2793.33	2793.33
Net Loan-Closing	24058.49	21265.16	18471.84	15678.51	12885.19
Average Loan	25455.15	22661.82	19868.50	17075.17	14281.85
Weighted Average Rate of Interest on Loan (%)	12.75	12.22	12.22	12.22	12.22
Interest on Loan	3245.63	2769.27	2427.93	2086.59	1745.24

53. The details of Interest on Loan allowed *vide* order dated 3.11.2017 in Petition No. 146/TT/2016, claimed by the Petitioner in the instant petition and trued up in the instant order is as follows:

(₹ in lakh)

Asset-I					
Particulars	15-2014	16-2015	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	28780.93	25995.89	24231.75	21742.63	19235.18
Claimed by the Petitioner in the instant petition	28780.00	25951.00	27403.00	22959.00	20354.00
Allowed after true-up in this order	28781.38	25945.75	23579.66	21169.02	18758.38

(₹ in lakh)

Asset-II					
Particulars	15-2014	16-2015	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	3245.13	2773.33	2492.86	2140.01	1785.58
Claimed by the Petitioner in the instant petition	3245.00	2769.00	2822.00	2266.00	1898.00
Allowed after true-up in this order	3245.63	2769.27	2427.93	2086.59	1745.24

Return on Equity (RoE)

54. The Petitioner has submitted that it is liable to pay income tax at MAT rate, and as such, RoE has been calculated after grossing up RoE to the extent of MAT rate for the control period. As per Regulation 25 of the 2014 Tariff Regulations, RoE is considered @15.5% per annum. The same is grossed up with applicable tax rate to arrive at pre-tax RoE.

55. The Petitioner has submitted that the applicable MAT rate was 20.961%



considering 10% surcharge and 3% education cess on MAT rate of 18.5% for 2014-15. The same has been further increased to 21.342% considering 12% surcharge and 3% education cess on MAT rate of 18.5% for 2015-16. For 2016-17 and 2017-18, the MAT rate remained same as 21.342% in line with MAT rate of 2015-16. For 2018-19 with MAT rate of 18.5% and surcharge of 12%, the Education cess has further increased from 3% to 4% resulting in applicable MAT rate of 21.549%. Accordingly, the Petitioner has considered the applicable Tax rate for 2013-14 to 2018-19. The applicable tax rate and resultant RoE are as follows:

Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
MAT rate	20.961%	21.342%	21.342%	21.342%	21.549%
ROE	19.61%	19.71%	19.71%	19.71%	19.76%

56. We are conscious that the entities covered under MAT regime are paying Income Tax as per MAT rates notified for respective financial years under IT Act, 1961, which is levied on the book profit of the entity computed as per the Section 115JB of the IT Act, 1961. Since the Petitioner has been paying income tax on income computed as per the MAT rates of the respective financial year, the notified MAT rates are considered for the purpose of grossing up of the rate of RoE for truing up of the tariff of the 2014-19 period in terms of the provisions of the 2014 Tariff Regulations as follows:

Year	Notified MAT rates (in %) (inclusive of surcharge & cess)	Base rate of RoE (in %)	Grossed up RoE (in %) $[(Base\ Rate)/(1-t)]$
2014-15	20.961	15.50	19.610
2015-16	21.342	15.50	19.705
2016-17	21.342	15.50	19.705
2017-18	21.342	15.50	19.705
2018-19	21.549	15.50	19.758

57. The MAT rates as above are considered for the purpose of grossing up of the rate of RoE for truing up of the tariff of the 2014-19 tariff period in terms of the provisions of the 2014 Tariff Regulations, which is as follows:



Year	MAT Rate(%)	Grossed up RoE (%) [(Base Rate)/(1-t)]
2014-15	20.961	19.610
2015-16	21.342	19.705
2016-17	21.342	19.705
2017-18	21.342	19.705
2018-19	21.549	19.758

58. Accordingly, RoE allowed for the transmission assets is as follows:

(₹ in lakh)

Asset-I					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Equity	111024.92	115928.42	116231.12	116231.12	116231.12
Addition due to Additional Capitalization	4903.50	302.70	0.00	0.00	0.00
Closing Equity	115928.42	116231.12	116231.12	116231.12	116231.12
Average Equity	113476.67	116079.77	116231.12	116231.12	116231.12
Return on Equity (Base Rate) (%)	15.50	15.50	15.50	15.50	15.50
Tax Rate applicable (%)	20.961	21.342	21.342	21.342	21.549
Rate of Return on Equity (Pre-tax) (%)	19.610	19.705	19.705	19.705	19.758
Return on Equity (Pre-tax)	22252.77	22873.52	22903.34	22903.34	22964.94

(₹ in lakh)

Asset-II					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Opening Equity	16226.92	16226.92	16226.92	16226.92	16226.92
Addition due to Additional Capitalization	0.00	0.00	0.00	0.00	0.00
Closing Equity	16226.92	16226.92	16226.92	16226.92	16226.92
Average Equity	16226.92	16226.92	16226.92	16226.92	16226.92
Return on Equity (Base Rate) (%)	15.50	15.50	15.50	15.50	15.50
Tax Rate applicable (%)	20.961	21.342	21.342	21.342	21.549
Rate of Return on Equity (Pre-tax) (%)	19.610	19.705	19.705	19.705	19.758
Return on Equity (Pre-tax)	3182.10	3197.51	3197.51	3197.51	3206.11

59. The details of RoE allowed *vide* order dated 3.11.2017 in Petition No. 146/TT/2016, claimed by the Petitioner in the instant petition and trued up in the instant order is shown is as follows:



(₹ in lakh)

Asset-I					
Particulars	15-2014	16-2015	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	22252.77	22763.24	22792.92	22792.92	22792.92
Claimed by the Petitioner in the instant petition	22253.00	22874.00	22905.00	22913.00	22981.00
Allowed after true-up in this order	22252.77	22873.52	22903.34	22903.34	22964.94

(₹ in lakh)

Asset-II					
Particulars	15-2014	16-2015	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	3182.10	3182.10	3182.10	3182.10	3182.10
Claimed by the Petitioner in the instant petition	3182.00	3198.00	3199.00	3202.00	3213.00
Allowed after true-up in this order	3182.10	3197.51	3197.51	3197.51	3206.11

Operation & Maintenance Expenses (O&M Expenses)

60. The Petitioner has submitted that the Commission vide order dated 3.11.2017 in Petition No. 146/TT/2016 has allowed the O&M Expenses considering actual line length of 187 km of electrode line at Mohindergarh Sub-station. The Commission vide order dated 3.11.2017 in Petition No. 146/TT/2016 further allowed the O&M Expenses of Petitioner's HVDC Scheme on the basis of Talcher-Kolar HVDC Bi-pole Scheme as per first proviso to Clause 4(a) of Regulation 29 of the 2014 Tariff Regulations, which provides as follows:

"84. xxxxxxxx. xxxxxxxx

Provided that operation and maintenance expenses for new HVDC bi-pole scheme for a particular year shall be allowed pro-rata on the basis of normative rate of operation and maintenance expense for 2000 MW, Talcher-Kolar HVDC bi-pole scheme for the respective year."

61. MPPMCL has submitted that the Petitioner has claimed additional O&M Expenses towards alleged increase in line length by 2 km due to RoW issues at Berwa Village. The said increase in line length is not reflected in actual capital



cost claimed by the Petitioner and allowed by the Commission at any point of time. Therefore, in the absence of related capitalization of the increased line, the Petitioner ought not to be entitled to proportionate increase in O&M Expenses. Therefore, the claim under this head may be dismissed.

62. In response, the Petitioner has submitted that the Commission had inadvertently missed out in considering O&M Expenses of 2 km length of Electrode line at Mohindergarh Sub-station over 185 km in order dated 18.3.2016 in Petition No. 184/TT/2013. However, same was considered by the Commission while allowing the O&M Expenses in order dated 3.11.2017 in Petition No. 146/TT/2016. The relevant extract of the order is as follows:

"54. We have considered the submissions of the petitioner and the respondents. Though licence was granted for 185 km of Electrode Line at Mohindergarh Substation, it is observed that the length of the said line increased by 2 km at the time of execution due to RoW issues at Berwa Village. This aspect was not brought to the notice of the Commission at the time of allowing final tariff in order dated 18.3.2016. As the actual length of the said line is 187 km, we have allowed O&M Expenses considering the actual length of 187 km."

63. The Petitioner has further submitted that it has claimed the O&M Expenses in accordance with the 2014 Tariff Regulations and order dated 3.11.2017.

64. We have considered the submissions of the Petitioner and MPPMCL. As the Commission has already recognised the fact, in order dated 3.11.2017, that the length of the 33 kV D/C Electrode Line at Mohindergarh Sub-station increased from 185 km to 187 km due to RoW issues, we allow O&M Expenses considering the line length as 187 km. The details of the O&M Expenses allowed for the transmission assets under Regulation 29(4)(a) of the 2014 Tariff Regulations are as follows:



(₹ in lakh)

Asset-I					
Element	2014-15	2015-16	2016-17	2017-18	2018-19
Mundra Switchyard (400 KV bays) - 9 Numbers (6 line bays, 2 Bus sectionalizers and 1 Bus Reactors)	542.70	560.70	579.33	598.59	618.39
Mohindergarh HVAC Switchyard (400 kV bays) – 4Numbers	241.20	249.20	257.48	266.04	274.84
HVDC Transmission Line Length - 990 km	1051.38	1086.03	1121.67	1159.29	1197.90
Pole-I and II of 2500 MW of Bi-pole HVDC Stations (O&M=2500*C/2000)	1466.25	1588.75	1722.50	1866.25	2021.25
33 kV D/C Electrode Line at Mundra Station - 32 km	22.62	23.39	24.16	24.96	25.79
33 kV D/C Electrode Line at Mohindergarh Station – 187 km	132.21	136.70	141.19	145.86	150.72
400 kV D/C Mohindergarh-Bhiwani (Twin Moose) – 50 km	35.35	36.55	37.75	39.00	40.30
400 kV D/C Mohindergarh-Dhanonda (Quad Moose) - 5 km	5.31	5.49	5.67	5.86	6.05
Bhiwani Switchyard (400 kV bays) - 2 bays	120.60	124.60	128.74	133.02	137.42
Total	3617.62	3811.40	4018.48	4238.87	4472.66

(₹ in lakh)

Asset-II					
Element	2014-15	2015-16	2016-17	2017-18	2018-19
400 kV D/C Mundra-Sami (Twin Moose) - 282 km	199.37	206.14	212.91	219.96	227.29
400 kV D/C Dehgam-Sami (Twin Moose) - 152 km	107.46	111.11	114.76	118.56	122.51
Mundra Switchyard (400 kV bays) - 4 Numbers	241.20	249.20	257.48	266.04	274.84
Mundra Switchyard (220 kV ICT bays) - 2 Numbers	84.42	87.22	90.12	93.10	96.20
Sami Sub-station (400 kV bays)-7 Numbers (4 line, 1 bus reactor, 2 FSC)	422.10	436.10	450.59	465.57	480.97
Dehgam (PG) Sub-station (400kV Bays) - 2 Numbers	120.60	124.60	128.74	133.02	137.42
Total	1175.16	1214.37	1254.60	1296.25	1339.23

65. The details of the O&M Expenses allowed vide order dated 3.11.2017 in



Petition No. 146/TT/2016, claimed by the Petitioner in the instant petition and trued up in the instant order is shown in the table below:

(₹ in lakh)

Asset-I					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	3617.62	3811.40	4018.48	4238.87	4472.66
Claimed by the Petitioner in the instant petition	3617.62	3811.40	4018.48	4238.87	4472.66
Allowed after true-up in this order	3617.62	3811.40	4018.48	4238.87	4472.66

(₹ in lakh)

Asset-II					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	1175.16	1214.37	1254.60	1296.25	1339.23
Claimed by the Petitioner in the instant petition	1175.16	1214.37	1254.60	1296.25	1339.23
Allowed after true-up in this order	1175.16	1214.37	1254.60	1296.25	1339.23

Interest on Working Capital (IWC)

66. The Petitioner is entitled to claim IWC as per Regulation 28(1)(c) of the 2014 Tariff Regulations as under:

i. Maintenance spares:

Working capital for maintenance spares have been worked out based on 15% of O&M Expenses as specified in Regulation 28 of the 2014 Tariff Regulations.

ii. O & M Expenses:

Working capital for O&M Expenses have been considered for one month of the allowed O&M Expenses.

iii. Receivables:

Working capital for receivables have been worked out on the basis of 2 months of annual transmission charges as worked out.

iv. Rate of interest on working capital:



Rate of IWC is considered on normative basis in accordance with Clause (3) of Regulation 28 of the 2014 Tariff Regulations.

67. The trued up IWC allowed for the transmission assets is as follows:

(₹ in lakh)

Asset-I					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Working capital for Maintenance Spares (15% of O&M expenses)	542.64	571.71	602.77	635.83	670.90
Working capital for O&M Expenses (O&M expenses for 1 month)	301.47	317.62	334.87	353.24	372.72
Working capital for Receivables (Equivalent to 2 months of annual fixed cost/ annual transmission charges)	12621.39	12353.76	11995.75	11623.49	11264.09
Total working capital	13465.51	3243.09	12933.40	12612.56	12307.71
Rate of Interest on working capital (%)	13.50	13.50	13.50	13.50	13.50
Interest on working Capital	1817.84	1787.82	1746.01	1702.70	1661.54

(₹ in lakh)

Asset-II					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Working capital for Maintenance Spares (15% of O&M expenses)	176.27	182.16	188.19	194.44	200.88
Working capital for O&M Expenses (O&M expenses for 1 month)	97.93	101.20	104.55	108.02	111.60
Working capital for Receivables (Equivalent to 2 months of annual fixed cost/ annual transmission charges)	1778.90	1707.20	1656.08	1605.20	1556.03
Total Working capital	2053.10	1990.55	1948.82	1907.66	1868.51
Rate of Interest on working capital (%)	13.50	13.50	13.50	13.50	13.50
Interest on working Capital	277.17	268.72	263.09	257.53	252.25

68. The details of the IWC allowed *vide* order dated 3.11.2017 in Petition No. 146/TT/2016, claimed by the Petitioner in the instant petition and trued up in the instant order is as follows:

(₹ in lakh)

Asset-I					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No.	1817.99	1786.59	1758.63	1713.51	1668.71



Asset-I					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
146/TT/2016					
Claimed by the Petitioner in the instant petition	1818.00	1788.00	1834.00	1745.00	1699.00
Allowed after true-up in this order	1817.84	1787.82	1746.01	1702.70	1661.54

(₹ in lakh)

Asset-II					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	277.34	268.64	264.41	258.59	252.80
Claimed by the Petitioner in the instant petition	277.00	269.00	272.00	262.00	256.00
Allowed after true-up in this order	277.17	268.72	263.09	257.53	252.25

Approved Annual Fixed Charges for the 2014-19 Tariff Period

69. Accordingly, the annual fixed charges approved for the transmission assets after truing-up for the 2014-19 period are as follows:

(₹ in lakh)

Asset-I					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	19258.75	19704.10	19727.01	19727.01	19727.01
Interest on Loan	28781.38	25945.75	23579.66	21169.02	18758.38
Return on Equity	22252.77	22873.52	22903.34	22903.34	22964.94
Operation and Maintenance	3617.62	3811.40	4018.48	4238.87	4472.66
Interest on Working Capital	1817.84	1787.82	1746.01	1702.70	1661.54
Total	75728.37	74122.59	71974.50	69740.94	67584.53

(₹ in lakh)

Asset-II					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Depreciation	2793.33	2793.33	2793.33	2793.33	2793.33
Interest on Loan	3245.63	2769.27	2427.93	2086.59	1745.24
Return on Equity	3182.10	3197.51	3197.51	3197.51	3206.11
Operation and Maintenance	1175.16	1214.37	1254.60	1296.25	1339.23
Interest on Working Capital	277.17	268.72	263.09	257.53	252.25
Total	10673.38	10243.21	9936.46	9631.21	9336.16

70. Accordingly, the Annual Transmission Charges allowed *vide* order dated 3.11.2017 in Petition No. 146/TT/2016, claimed by the Petitioner in the instant petition and trued up in the instant order is shown in the table below:



(₹ in lakh)

Asset-I					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	75734.80	74067.95	72535.52	70221.68	67903.22
Claimed by the Petitioner in the instant petition	75744.00	74144.00	75905.00	71605.00	69265.00
Allowed after true-up in this order	75728.37	74122.59	71974.50	69740.94	67584.53

(₹ in lakh)

Asset-II					
Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
Allowed earlier in order dated 3.11.2017 in Petition No. 146/TT/2016	10680.80	10239.52	9995.04	9678.02	9360.79
Claimed by the Petitioner in the instant petition	10681.00	10251.00	10351.00	9832.00	9513.00
Allowed after true-up in this order	10673.38	10243.21	9936.46	9631.21	9336.16

Determination of Annual Fixed Charges for the 2019-24 Tariff Period

71. The Petitioner has claimed the following transmission charges for the transmission assets for the 2019-24 tariff period:

(₹ in lakh)

Asset-I					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	19763.00	19898.00	20030.00	20030.00	20030.00
Interest on Loan	17745.00	15355.00	12942.00	10288.00	7634.00
Return on Equity	22987.00	23139.00	23287.00	23287.00	23287.00
Interest on Working Capital	1177.00	1119.00	1082.00	1051.00	1020.00
Operation and Maintenance	6067.00	5459.00	5356.00	5565.00	5780.00
Total	67740.00	64970.00	62697.00	60221.00	57752.00

(₹ in lakh)

Asset-II					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	2806.00	2806.00	2806.00	2806.00	2806.00
Interest on Loan	1527.00	1155.00	783.00	412.00	113.00
Return on Equity	3214.00	3214.00	3214.00	3214.00	3214.00
Interest on Working Capital	157.00	153.00	149.00	145.00	142.00
Operation and Maintenance	987.00	1018.00	1055.00	1093.00	1132.00
Total	8691.00	8346.00	8007.00	7670.00	7407.00

72. The Petitioner has claimed the following IWC for the transmission asset for



the 2019-24 tariff period:

(₹ in lakh)

Asset-I					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Maintenance Spares	910.00	819.00	803.00	835.00	867.00
O&M expenses	506.00	455.00	446.00	464.00	482.00
Receivables	8351.00	8010.00	7730.00	7425.00	7120.00
Total	9767.00	9284.00	8980.00	8723.00	8469.00
Rate of Interest (%)	12.05	12.05	12.05	12.05	12.05
Interest on Working Capital	1177.00	1119.00	1082.00	1051.00	1020.00

(₹ in lakh)

Asset-II					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Maintenance Spares	148.00	153.00	158.00	164.00	170.00
O&M expenses	82.00	85.00	88.00	91.00	94.00
Receivables	1072.00	1029.00	987.00	946.00	913.00
Total	1302.00	1267.00	1233.00	1201.00	1177.00
Rate of Interest (%)	12.05	12.05	12.05	12.05	12.05
Interest on Working Capital	157.00	153.00	149.00	145.00	142.00

Capital Cost

73. Regulation 19 of the 2019 Tariff Regulations provides as follows:

“19 Capital Cost: (1) *The Capital cost of the generating station or the transmission system, as the case may be, as determined by the Commission after prudence check in accordance with these regulations shall form the basis for determination of tariff for existing and new projects.*

(2) *The Capital Cost of a new project shall include the following:*

- (a) *The expenditure incurred or projected to be incurred up to the date of commercial operation of the project;*
- (b) *Interest during construction and financing charges, on the loans (i) being equal to 70% of the funds deployed, in the event of the actual equity in excess of 30% of the funds deployed, by treating the excess equity as normative loan, or (ii) being equal to the actual amount of loan in the event of the actual equity less than 30% of the funds deployed;*
- (c) *Any gain or loss on account of foreign exchange risk variation pertaining to the loan amount availed during the construction period;*
- (d) *Interest during construction and incidental expenditure during construction as computed in accordance with these regulations;*
- (e) *Capitalised Initial Spares subject to the ceiling rates in accordance with these regulations;*
- (f) *Expenditure on account of additional capitalization and de-capitalisation determined in accordance with these regulations;*
- (g) *Adjustment of revenue due to sale of infirm power in excess of fuel cost prior to the date of commercial operation as specified under Regulation 7 of these regulations;*
- (h) *Adjustment of revenue earned by the transmission licensee by using the asset before the date of commercial operation;*



- (i) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
- (j) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal upto the receiving end of the generating station but does not include the transportation cost and any other appurtenant cost paid to the railway;
- (k) Capital expenditure on account of biomass handling equipment and facilities, for co-firing;
- (l) Capital expenditure on account of emission control system necessary to meet the revised emission standards and sewage treatment plant;
- (m) Expenditure on account of fulfilment of any conditions for obtaining environment clearance for the project;
- (n) Expenditure on account of change in law and force majeure events; and
- (o) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.

(3) The Capital cost of an existing project shall include the following:

- (a) Capital cost admitted by the Commission prior to 1.4.2019 duly tried up by excluding liability, if any, as on 1.4.2019;
- (b) Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;
- (c) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
- (d) Capital expenditure on account of ash disposal and utilization including handling and transportation facility;
- (e) Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of generating station but does not include the transportation cost and any other appurtenant cost paid to the railway; and
- (f) Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries."

(4) The capital cost in case of existing or new hydro generating station shall also include:

- (a) cost of approved rehabilitation and resettlement (R&R) plan of the project in conformity with National R&R Policy and R&R package as approved; and
- (b) cost of the developer's 10% contribution towards Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) project in the affected area.

(5) The following shall be excluded from the capital cost of the existing and new projects:

- (a) The asset forming part of the project, but not in use, as declared in the tariff petition;



(b) De-capitalised Asset after the date of commercial operation on account of replacement or removal on account of obsolescence or shifting from one project to another project:

Provided that in case replacement of transmission asset is recommended by Regional Power Committee, such asset shall be decapitalised only after its redeployment;

Provided further that unless shifting of an asset from one project to another is of permanent nature, there shall be no de-capitalization of the concerned asset.

(c) In case of hydro generating stations, any expenditure incurred or committed to be incurred by a project developer for getting the project site allotted by the State Government by following a transparent process;

(d) Proportionate cost of land of the existing project which is being used for generating power from generating station based on renewable energy; and

(e) Any grant received from the Central or State Government or any statutory body or authority for the execution of the project which does not carry any liability of repayment."

74. The admitted capital cost as on 31.3.2019 in respect of Asset-I and Asset-II of ₹387437.06 lakh and ₹54089.69 lakh, respectively has been considered as opening capital cost as on 1.4.2019 for working out tariff for the 2019-24 tariff period in accordance with Regulation 19 of the 2019 Tariff Regulations.

Additional Capital Expenditure (ACE)

75. Regulation 24 of the 2019 Tariff Regulations provide as follows:

"24. Additional Capitalisation within the original scope and upto the cut-off date

(1) The Additional Capital Expenditure in respect of a new project or an existing project incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:

- (a) Undischarged liabilities recognized to be payable at a future date;*
- (b) Works deferred for execution;*
- (c) Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23 of these regulations;*
- (d) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority or order or decree of any court of law;*
- (e) Change in law or compliance of any existing law; and*
- (f) Force Majeure events:*

Provided that in case of any replacement of the assets, the additional capitalization shall be worked out after adjusting the gross fixed assets and cumulative depreciation of the assets replaced on account of de-capitalization.



(2) The generating company or the transmission licensee, as the case may be shall submit the details of works asset wise/work wise included in the original scope of work along with estimates of expenditure, liabilities recognized to be payable at a future date and the works deferred for execution."

76. The Petitioner has projected ACE in case of Asset-I in 2019-20 and 2020-21. The Petitioner has not claimed ACE in case of Asset-II during the 2019-24 tariff period. The Petitioner's claim in case of Asset-I is as follows:

(₹ in lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Asset-I	120.00	5000.00	0.00	0.00	0.00

77. The Petitioner has proposed ACE towards following items in case of Asset-I during the 2019-24 tariff period:

- (i) Installation of 12-ohm Series Line Reactor in 400 kV D/C Mohindergarh-Dhanonda line Circuit-I & II at Mohindergarh end;
- (ii) Up-gradation of SCADA system; and
- (iii) Replacement of Porcelain Insulators with Silicon Rubber Insulator.

78. The Petitioner has submitted that during the 3rd Meeting of the Empowered Committee on Transmission (ECT) held on 21.12.2018, it was recommended that as part of scheme to control fault level in Northern Region, installation of 12 ohm Series Line Reactor in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I & Circuit-II at Mohindergarh end is required under compressed time schedule through regulated tariff mechanism (RTM). In light of above decision by ECT, Ministry of Power requested the Petitioner to take necessary action. Therefore, the Petitioner approached the Commission *vide* Petition No. 118/TL/2019 for inclusion of the aforesaid reactor in its transmission licence (No. 20/Transmission/2013/CERC dated 29.7.2013). Subsequently, the Commission *vide* order dated 7.10.2019 in Petition No. 118/TL/2019 amended the transmission licence of the Petitioner and included the said reactor in the



amended scope of the transmission project. The requirement of installation of 12 ohm reactor is of extraordinary nature. However, the Petitioner has carried out Technical Feasibility study for installation of the reactor. The installation of 12 ohm series reactor to control fault level involves installation of 2 sets of 12 ohm series reactor at Mohindergarh HVDC terminal in AC side, one set each in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I & Circuit-II. The installation of 12 ohm series reactor is proposed to be completed in 2020-21. The Petitioner has considered the estimated capital cost of 12 ohm reactor as ₹5000 lakh and claimed the same under Regulation 26(1)(b) of the 2019 Tariff Regulations.

79. MPPMCL has submitted that ACE of ₹5000 lakh towards 12 ohm series reactor has been included in the amended license, but merely by amendment in original license, the Petitioner does not get entitled to related additional capitalization. The Petitioner should demonstrate that the requirement of 12 ohm reactors was not included in the original scope of work and that the non-installation of the same was not a defect pointed out by MoP.

80. We have considered the submissions of Petitioner and MPPMCL. With respect to installation of 12-ohm Series Line Reactor in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I & Circuit-II at Mohindergarh end, the Commission *vide* order dated 7.10.2019 in Petition No. 118/TL/2019 amended the transmission licence of the Petitioner and included the same in scope of the transmission project. The original transmission license was granted *vide* order dated 29.7.2013 in Petition No.44/TL/2012. The Petitioner implemented the transmission project as per the scope of the transmission license and was granted tariff for 2009-14 period *vide* order dated 18.3.2016 in Petition No. 184/TT/2013 that was trued up



and tariff for 2014-19 period was determined vide order dated 3.11.2017 in Petition No 146/TT/2016.

81. While amending the transmission license by including 12 ohm series line reactor in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I & Circuit-II at Mohindergarh end, the Commission in order dated 7.10.2019 in Petition No. 118/TL/2019 held as follows:

"9..... The Representative of NRLDC during the hearing on 27.9.2019 submitted that NLRDC has no objection to the amendment of licence proposed in the Petition. Central Transmission Utility vide its letter dated 10.5.2019 has submitted that in order to control the fault level at 400 kV Mohindergarh sub- station developed by ATIL through TBCB route, installation of 12 ohm Series Line Reactor in each circuit of Mohindergarh-Dhanonda 400 kV D/C line at Mohindergarh end was agreed in the 39th meeting of the Standing Committee on Power System Planning of Northern Region held at 29/30-5.2017. CTU has further submitted that the scheme was also discussed in the 2nd Meeting of National Committee on Transmission (NCT) held on 4.12.2018 and NCT recommended implementation of above work. Considering all the materials on record, we are of view that it is in the public interest to approve amendment to the transmission licence granted to the Petitioner, Adani Transmission (India) Ltd. to include 12 ohm Series Line Reactor in Mohindergarh-Dhanonda 400 kV D/c line ckt I & II at Mohindergarh end. Accordingly, we direct to include the above scope of work in the transmission licence granted to the Petitioner vide Transmission Licence No. 20/Transmission/2013/CERC dated 29.7.2013. The licensee shall remain bound by the terms and conditions contained in the order dated 29.7.2013."

82. Accordingly, the Petitioner has submitted the tariff proposal for 12 ohm series reactors in accordance with provisions of the 2019 tariff Regulations at an estimated cost of ₹5000 lakh.

83. We note that 'element', 'Transmission Line' and 'Transmission System' are defined in Clause (20), Clause (66) and Clause (68) respectively of Regulation 3 of the 2019 Tariff Regulations as follows:

"3. Definitions. - In these regulations, unless the context otherwise requires: -

(20) 'Element' means an asset which has been distinctively defined under the scope of the transmission project in the Investment Approval such as transmission lines including line bays and line reactors, substations, bays, compensation device, Interconnecting Transformers;"



“(66) ‘Transmission Line’ shall have the same meaning as defined in sub-section (72) of Section 2 of the Act;”

“(68) ‘Transmission System’ means a line or a group of lines with or without associated sub-station, equipment associated with transmission lines and sub-stations identified under the scheme as per the Investment Approval(s) and shall include associated communication system;”

84. Therefore, the 12 ohm series reactor, which has been incorporated in the revised scope of the transmission project by way of amendment to the transmission license of the Petitioner is to be reckoned as a new and distinct ‘element’ of the transmission project. Therefore, the Petitioner is required to submit tariff application in accordance with 2019 Tariff Regulation with respect to the new and distinct ‘element’ (“12 ohm Series Line Reactor in 400 kV D/C Mohindergarh-Dhanonda 400kV line (Circuit-I & Circuit-II) at Mohindergarh end”) of the transmission project.

85. Hence, we are not inclined to consider the “12 ohm Series Line Reactor in 400 kV D/C Mohindergarh-Dhanonda 400 kV line (Circuit-I & II) at Mohindergarh end” under the additional capitalisation provisions of the 2019 Tariff Regulations, since the said reactor is a distinct ‘element’ as defined under the 2014 Tariff Regulations. Moreover, the treatment of depreciation for the new 12 ohm series reactor, put into commercial operation in 2019-24 tariff period will be different from the depreciation allowed for the existing transmission assets put into commercial operation in the 2009-14 tariff regulations. Therefore, we are of the considered view that 12 ohm series reactor has to be treated distinctly and separate tariff has to be allowed for it.

86. In a similar matter in order dated 30.12.2019 in Petition No. 277/TT/2019 for determination of transmission tariff of assets of “Eastern region Strengthening



Scheme-XII (ERSS-XI)", the Commission observed that the original Investment Approval dated 13.5.2014 provided for 2 numbers 500 MVA ICTs at Patna including 22 numbers other assets of the scheme based on approval of ERSS-XI scheme in SCM dated 27.8.2013 and ERPC dated 27.8.2013. Subsequently, after a gap of about 4 years, the requirement of 3rd ICT at Patna was discussed and agreed in the 19th SCM of ER held on 1.9.2017 and 36th ERPC meeting held on 14.9.2017 considering the peak load demand of 650 MW at Patna upon request from BSPTCL. Thereafter, MoP *vide* letter dated 10.1.2018 directed the Petitioner to implement the 3rd 500 MVA ICT at Patna Sub-station. Accordingly, the Petitioner has included the 3rd 500 MVA ICT at Patna Sub-station in Revised Cost estimate-II (RCE-II) dated 14.3.2019. As per RCE-II, the Asset-IV i.e. 3rd 500 MVA ICT at Patna Sub-station was put into commercial operation on 14.2.2018. Accordingly, the Commission has allowed the tariff of the new element, 3rd ICT at Patna Sub-station, introduced at the RCE-II stage in accordance with the 2014 Tariff Regulations after carrying out prudence check of time and cost over-run and capital cost stipulated in RCE-II, instead of original investment approval.

87. Accordingly, the Petitioner is directed to submit fresh petition for approval of tariff for '12 ohm Series Line Reactor in 400 kV D/C Mohindergarh-Dhanonda 400 kV line (Circuit-I & Circuit-II) at Mohindergarh end' as a separate asset as per provisions of the 2019 Tariff Regulations along with the following information:

- (i) Investment approval/ Revised Cost Estimate by the Board of Directors of the Petitioner company.
- (ii) Documents in support of COD such as CEA certificate, RLDC certificate, CMD certificate etc. in accordance with relevant regulations and grid code.



- (iii) Auditor's Certificate clearly indicating Hard Cost, IDC and IEDC as well as element wise (i.e. land, building, transmission line, sub-station, communication system) capital cost as on COD.
- (iv) The claim of ACE under the Regulation concerned.
- (v) Complete set of all the applicable Tariff Forms in line with Auditor's Certificates.
- (vi) Statement of IDC computation containing name of loan, rate of interest drawl date and date of payment of last interest.
- (vii) Documents in respect of rate of interest claimed and effective tax rate.
- (viii) Justification of time and cost overrun, if any, together with supporting documents.

88. As regards ACE claimed in respect of other items such as upgradation of SCADA system and replacement of Porcelain Insulators with Silicon Rubber Insulator during the 2019-24 period, the Petitioner has submitted the following justification and has requested to admit the claimed ACE under applicable clause of Regulation 27(1)(d) of the 2019 Tariff Regulations:

(a) The Petitioner has installed SCADA system in Asset-I for the purpose of control and protection of the sub-station and associated transmission line. The SCADA system is in service since 2010 and sub-station automation system software is based on Windows-XP. As of now, the system is obsolete and support to cater to the various problems is not possible to maintain reliable grid operation. Further, Microsoft has stopped the Operating System support for Windows XP. Therefore, requirement of upgradation from existing version to new version is necessary to overcome following challenges:

- i. Obsolete Version of PACIS SCADA Application for SAS and hence, there are problem in getting proper support on the same.
- ii. Repeated hanging of Server application and auto-restart
- iii. Frequent hanging of OWS.
- iv. Hanging of BCU application
- v. BCU reports hardware auto-re-closure fault.
- vi. Communication issue of 40 platform relay with configuration tools.
- vii. Communication issue of 30 platform relays with existing SCADA



- viii. Re-configuration of certain special logics e.g. Automatic setting group change logic, CB Negative supply interruption scheme.
- ix. Fixing of Bugs and Improvisation of feature & performance in upgraded version of SCADA software
- x. Obsolete support for the Windows XP operating System from Microsoft.
- xi. Cyber Security
- xii. Frequent network disturbances like disconnection of IEDs

(b) Therefore, it is proposed to upgrade the existing version of software to new version. Benefit of new version of software are as follows:

- i. Supports 250 IEDs and up to 100,000 data points managed.
- ii. Fast and seamless redundancy for all functions (clients, real-time server, historian database) for higher availability
- iii. Powerful graphical capability able to fit the highest resolution screens support up to 4 high-resolution screens
- iv. Support 10 a View Clients per twin server (including remote and embedded a View clients)
- v. Up to 4 VDU (Video Display Unit) on each a View Client
- vi. Up to 2 Historian-IMS Servers, 1 per a View Server (redundancy)
- vii. Web HMI features are available and same can be connected through firewall.
- viii. Fully customizable HMI to customer's graphical preferences.
- ix. Embedded Mimics capabilities (zoom-in/zoom-out, Panning, Print Mimic, Decluttering)
- x. Substation Cyber security features (White listing /Hardening)

(c) The total estimated capital cost for upgradation is ₹120 lakh. The Petitioner has claimed the same as part of ACE in 2019-20 as per Regulation 27(1)(d) of the 2019 Tariff Regulations.

89. MPPMCL, *vide* affidavit dated 8.6.2020 has submitted that up-gradation of SCADA system from Windows XP to a new version is a matter of O&M and/or R&M of the transmission system and not covered under additional capitalization. The SCADA system based on Windows XP is still functioning well with other transmission licensees and cannot be said to be old and not supportive. The



Petitioner has not produced any instances to show of any complaints or objections, if any, made to it by the respective Load Dispatch Centre in respect of alleged mal-function of present SCADA system. The Petitioner has not even identified the new system to which it proposes to upgrade. In such a scenario, its self-assessment for additional expenditure of ₹120 lakh is imaginary and baseless.

90. We have considered the submissions of the Petitioner and MPPMCL. The 2019 Tariff Regulations allow for replacement of equipment on account of obsolescence of technology and otherwise necessary for successful operation of the system. In the instant case, the upgradation of SCADA system is critical in nature and upgradation of SCADA is required for control and protection of the sub-station and associated transmission line and maintaining the reliable grid operation and also required for security and safety of the HVDC station. Regarding de-capitalisation, if any, towards up-gradation of SCADA work, the Petitioner is directed to submit the de-capitalisation details at the time of truing up. The Petitioner shall submit obsolescence certificate from its management and OEM at the time of truing up. Accordingly, ACE proposed for an amount of ₹120.00 towards up-gradation of SCADA works is allowed subject to truing up.

91. The Petitioner was directed *vide* TV letter dated 16.9.2020 to provide clarification in respect of ACE claimed for the tariff period 2019-24 (which is beyond the cut-off date), and expenditure proposed for replacement of Porcelain Insulators with Silicon Rubber Insulator during the 2019-24 tariff period.

92. In response, the Petitioner *vide* affidavit dated 4.2.2021 has submitted that Mundra-Mohindergarh HVDC line is passing through coastal area which has



dusty and salty regions apart from industrial zones and foggy weather. The atmospheric conditions like salty, coastal, polluted, creek and desert area adversely affect the performance of porcelain disc insulators due to which the availability of lines and plants is severely affected. Due to high contaminations, dielectric strength of insulator gets reduced and tracking on insulators were observed which resulted into frequent transient faults online. Continuous tracking on insulator results into breakdown and forced outages which is affecting the system availability and grid stability. Despite taking regular maintenance measures including cleaning and washing of insulators every year, tripping and disturbances in some of the portions of the transmission line are matter of concern. The transient faults are also observed by other utilities in the same area. Industry has adopted practice of replacement of Porcelain Disc Insulators by Silicon Rubber Insulators (SRI) in the affected area. Due to better hydrophobicity of SRI, it gives better result in affected areas of line. Northern Regional Power Committee (NRPC) is also taking review of insulator replacement work/ progress of important link from transmission licensees. Therefore, in order to overcome this, the replacement of Porcelain Insulators with Silicon Rubber Insulator is taken up in a phased manner. The process of replacement of the insulator requires outages for the transmission line. The Petitioner has claimed the following ACE towards insulator replacement:

					(₹ in lakh)
Additional capital expenditure proposed					Total estimated amount of insulator replacement
2019-20	2020-21	2021-22	2022-23	2023-24	
375.00	331.00	210.00	214.00	208.00	1338.00

93. Regulations 26 of the 2019 Tariff Regulations provide as follows:

“26. Additional Capitalisation beyond the original scope



(1) *The capital expenditure, in respect of existing generating station or the transmission system including communication system, incurred or projected to be incurred on the following counts beyond the original scope, may be admitted by the Commission, subject to prudence check:*

- (a) *Liabilities to meet award of arbitration or for compliance of order or directions of any statutory authority, or order or decree of any court of law;*
- (b) *Change in law or compliance of any existing law;*
- (c) *Force Majeure events;*
- (d) *Need for higher security and safety of the plant as advised or directed by appropriate Indian Government Instrumentality or statutory authorities responsible for national or internal security;*
- (e) *Deferred works relating to ash pond or ash handling system in additional to the original scope of work, on case to case basis:*

Provided also that if any expenditure has been claimed under Renovation and Modernisation (R&M) or repairs and maintenance under O&M expenses, the same shall not be claimed under this Regulation;

(f) *Usage of water from sewage treatment plant in thermal generating station."*

94. We have considered the submissions made by the Petitioner. The Petitioner has submitted that existing insulators are required to be replaced with SRI for efficient operation of Asset-I. We are of the view that the consent of the beneficiaries for replacing the existing insulators with SRI should be obtained for incurring such huge ACE towards replacement of existing insulators with SRI. The Petitioner has not submitted any approval of RPC for replacement of the existing insulators. The Petitioner is directed to discuss the issue of replacement of insulators at RPC level. Further, the Petitioner has not submitted what would be done with the replaced insulators and the details of decapitalisation of the insulators. Therefore, projected ACE of ₹1338 lakh during 2019-24 period on account of insulator replacement is disallowed at this stage. However, the Petitioner is given liberty to approach the Commission through a separate petition along with minutes of the RPC meeting and other details mentioned above so that proposal of replacement of insulators could be considered by the Commission.

Capital Cost for the 2019-24 Tariff Period

95. Accordingly, the capital cost of the transmission assets considered for the



tariff period 2019-24, subject to truing up, is as follows:

(₹ in lakh)

Asset	Capital cost allowed as on 1.4.2019	ACE allowed for the year 2019-24	Total Estimated Completion capital cost allowed as on 31.3.2024
	A	B	C=A+B
Asset-I	387437.06	120.00	387557.06
Asset-II	54089.69	0.00	54089.69

Debt-Equity Ratio

96. Regulations 18 of the 2019 Tariff Regulations provides as follows:

“18. Debt-Equity Ratio: (1) For new projects, the debt-equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:

Provided that:

- where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:
- the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:
- any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.

Explanation.-The premium, if any, raised by the generating company or the transmission licensee, as the case may be, while issuing share capital and investment of internal resources created out of its free reserve, for the funding of the project, shall be reckoned as paid up capital for the purpose of computing return on equity, only if such premium amount and internal resources are actually utilised for meeting the capital expenditure of the generating station or the transmission system.

(2) The generating company or the transmission licensee, as the case may be, shall submit the resolution of the Board of the company or approval of the competent authority in other cases regarding infusion of funds from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the generating station or the transmission system including communication system, as the case may be.

(3) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, debt: equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2019 shall be considered:

Provided that in case of a generating station or a transmission system including communication system which has completed its useful life as on or after 1.4.2019, if the equity actually deployed as on 1.4.2019 is more than 30% of the capital cost, equity in excess of 30% shall not be taken into account for tariff computation;



Provided further that in case of projects owned by Damodar Valley Corporation, the debt: equity ratio shall be governed as per sub-clause (ii) of clause (2) of Regulation 72 of these regulations.

(4) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, but where debt: equity ratio has not been determined by the Commission for determination of tariff for the period ending 31.3.2019, the Commission shall approve the debt: equity ratio in accordance with clause (1) of this Regulation.

(5) Any expenditure incurred or projected to be incurred on or after 1.4.2019 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this Regulation.

(6) Any expenditure incurred for the emission control system during the tariff period as may be admitted by the Commission as additional capital expenditure for determination of supplementary tariff, shall be serviced in the manner specified in clause (1) of this Regulation."

97. The details of the debt-equity considered for the purpose of computation of tariff for the 2019-24 tariff period for the transmission assets are as follows:

Funding Asset-I	Capital Cost (₹ in lakh) as on 1.4.2019	(%)	Capital Cost (₹ in lakh) as on 31.3.2024	(%)
Debt	271205.94	70.00	271289.94	70.00
Equity	116231.12	30.00	116267.12	30.00
Total	387437.06	100.00	387557.06	100.00

Funding Asset-II	Capital Cost (₹ in lakh) as on 1.4.2019	(%)	Capital Cost (₹ in lakh) as on 31.3.2024	(%)
Debt	37862.78	70.00	37862.78	70.00
Equity	16226.91	30.00	16226.91	30.00
Total	54089.69	100.00	54089.69	100.00

Depreciation

98. Regulation 33 of the 2019 Tariff Regulations provide as follows:-

"33. Depreciation:

(1) Depreciation shall be computed from the date of commercial operation of a generating station or unit thereof or a transmission system or element thereof including communication system. In case of the tariff of all the units of a generating station or all elements of a transmission system including communication system for which a single tariff needs to be determined, the depreciation shall be computed from the effective date of commercial operation of the generating station or the transmission system taking into consideration the depreciation of individual units:



Provided that effective date of commercial operation shall be worked out by considering the actual date of commercial operation and installed capacity of all the units of the generating station or capital cost of all elements of the transmission system, for which single tariff needs to be determined.

(2) The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission. In case of multiple units of a generating station or multiple elements of a transmission system, weighted average life for the generating station of the transmission system shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis."

(3) The salvage value of the asset shall be considered as 10% and depreciation shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable;

Provided further that in case of hydro generating stations, the salvage value shall be as provided in the agreement, if any, signed by the developers with the State Government for development of the generating station:

Provided also that the capital cost of the assets of the hydro generating station for the purpose of computation of depreciated value shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff:

Provided also that any depreciation disallowed on account of lower availability of the generating station or unit or transmission system as the case may be, shall not be allowed to be recovered at a later stage during the useful life or the extended life.

(4) Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.

(5) Depreciation shall be calculated annually based on Straight Line Method and at rates specified in Appendix-I to these regulations for the asset of the generating station and transmission system:

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the effective date of commercial operation of the station shall be spread over the balance useful life of the asset.

(6) In case of the existing projects, the balance depreciable value as on 1.4.2019 shall be worked out by deducting the cumulative depreciation as admitted by the Commission upto 31.3.2019 from the gross depreciable value of the assets.

(7) The generating company or the transmission licensee, as the case may be, shall submit the details of proposed capital expenditure five years before the completion of useful life of the project along with justification and proposed life extension. The Commission based on prudence check of such submissions shall approve the depreciation on capital expenditure.



(8) In case of de-capitalization of assets in respect of generating station or unit thereof or transmission system or element thereof, the cumulative depreciation shall be adjusted by taking into account the depreciation recovered in tariff by the decapitalized asset during its useful services.

(9) Where the emission control system is implemented within the original scope of the generating station and the date of commercial operation of the generating station or unit thereof and the date of operation of the emission control system are the same, depreciation of the generating station or unit thereof including the emission control system shall be computed in accordance with Clauses (1) to (8) of this Regulation.

(10) Depreciation of the emission control system of an existing or a new generating station or unit thereof where the date of operation of the emission control system is subsequent to the date of commercial operation of the generating station or unit thereof, shall be computed annually from the date of operation of such emission control system based on straight line method, with salvage value of 10%, over a period of-

a) twenty five years, in case the generating station or unit thereof is in operation for fifteen years or less as on the date of operation of the emission control system; or

b) balance useful life of the generating station or unit thereof plus fifteen years, in case the generating station or unit thereof is in operation for more than fifteen years as on the date of operation of the emission control system; or

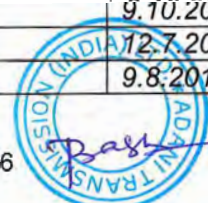
c) ten years or a period mutually agreed by the generating company and the beneficiaries, whichever is higher, in case the generating station or unit thereof has completed its useful life."

99. The Petitioner has submitted that it has calculated the depreciation for 2019-20 to 2023-24 as specified in Regulation 33 of the 2019 Tariff Regulations.

100. We have considered the submissions of the Petitioner. The Commission vide order dated 18.3.2016 in Petition No. 184/TT/2013 with regard to actual COD of the transmission assets had held as follows:

"22. The transmission assets covered under the scope of licence were commissioned as a part of generating station of the petitioner Company in the form of dedicated transmission lines along with the associated sub-stations as per the following timeline:

Particulars	Elements	Actual COD
Asset II	400 kV D/C Mundra-Sami	13.7.2009
	400 kv D/C Sami-Dehgam along with Switching Station	13.7.2009
Asset I	HVDC Pole-I along with HVDC line	12.7.2012
	HVDC Pole-II along with HVDC line	9.10.2012
	400 kV D/C Mohindergarh-Bhiwani	12.7.2012
	400 kV D/C Mohindergarh-Dhanonda	9.8.2012



Thus, the transmission assets of the petitioner were commissioned prior to the grant of transmission licence. The petitioner has considered the date of transmission licence as the deemed date of commercial operation for the purpose of tariff determination under Tariff Regulations, 2009 and has claimed the annual fixed charges on the basis of the capital cost as on the date of issue of transmission licence. The petitioner has argued that the date of commercial operation of the transmission assets should be reckoned from the date the assets were treated as ISTS i.e. from the date of grant of transmission licence.

26. The transmission assets of the petitioner have been commissioned with effect from the dates mentioned against each asset in para 22 above. These assets have been put to commercial use from these dates, though as dedicated transmission lines. The licence was granted on 29.7.2013 i.e. almost one year and in some cases, more than one year after the assets were commissioned. After the grant of licence, the dedicated assets acquired the status of ISTS. Therefore, there is a need to decide a reference date for determination of tariff of the transmission assets on their conversion to ISTS.....

.....Finally, taking 1.10.2013 as the date for determination of tariff will balance the interests of the petitioner and beneficiaries. In view of the above discussion, we decide that the deemed CoD for the purpose of determination of tariff shall be considered as 1.10.2013"

101. Further, the Commission vide its order dated 3.11.2017 in Petition No. 146/TT/2016 has already taken into account the cumulative depreciation as on 1.10.2013 while calculating the remaining depreciation value for the purpose of tariff. The relevant portion of the order dated 3.11.2017 in Petition no. 146/TT/2016 are as follows:

"49. The petitioner has claimed depreciation considering weighted average rate of depreciation (WAROD) of 5.10% and 5.18% for Asset-I and Asset-II, respectively for 2009-14. The said depreciation rates have been considered for the purpose of tariff. The petitioner has further submitted that the cumulative.....

Thus, cumulative depreciation as on 1.10.2013 amounting to ₹20078.57 lakh for Asset-I and ₹9614.27 lakh for Asset-II has been considered while calculating the remaining depreciation value for the purpose of tariff."

102. The depreciation has been worked out considering the admitted capital expenditure as on 31.3.2019 and accumulated depreciation up to 31.3.2019. Based on the actual COD of the transmission assets as mentioned above, Asset-I will complete 12 years of useful life beyond 2019-24 tariff period. Accordingly, the depreciation in respect of Asset-I has been worked out based on the WAROD.



WAROD at Annexure-II has been worked out after taking into account the depreciation rates specified in the 2019 Tariff Regulations. Asset-II has completed 12 years of its useful life on 31.3.2021. Therefore, depreciation in respect of Asset-II from 2021-22 onwards has been calculated based on the remaining depreciable value in accordance with Regulation 33(5) of the 2019 Tariff Regulations. The depreciation allowed for the transmission asset is as follows:

(₹ in lakh)					
Asset-I					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Gross Block	387437.06	387557.06	387557.06	387557.06	387557.06
Additional Capitalisation	120.00	0.00	0.00	0.00	0.00
Closing Gross Block	387557.06	387557.06	387557.06	387557.06	387557.06
Average Gross Block	387497.06	387557.06	387557.06	387557.06	387557.06
Freehold land	6070.00	6070.00	6070.00	6070.00	6070.00
Weighted Average Rate of Depreciation (WAROD) (%)	5.09	5.09	5.09	5.09	5.09
Balance useful life of the asset at the beginning of the year (Year)	23.00	22.00	21.00	20.00	19.00
Lapsed life of the asset at the beginning of the year (Year)	6.00	7.00	8.00	9.00	10.00
Aggregated Depreciable Value	343284.35	343338.35	343338.35	343338.35	343338.35
Depreciation during the year	19730.17	19733.34	19733.34	19733.34	19733.34
Cumulative Depreciation at the end of the year	147294.03	167027.37	186760.71	206494.06	226227.40
Remaining Aggregated Depreciable Value at the end of the Year	195990.32	176310.98	156577.64	136844.30	117110.96

(₹ in lakh)					
Asset-II					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Gross Block	54089.69	54089.69	54089.69	54089.69	54089.69
Additional Capitalisation	0.00	0.00	0.00	0.00	0.00
Closing Gross Block	54089.69	54089.69	54089.69	54089.69	54089.69
Average Gross Block	54089.69	54089.69	54089.69	54089.69	54089.69
Freehold land	742.00	742.00	742.00	742.00	742.00
Weighted Average Rate of Depreciation (WAROD) (%)	5.16	5.16	1.54	1.54	1.54



Asset-II					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Balance useful life of the asset at the beginning of the year (Year)	23.00	22.00	21.00	20.00	19.00
Lapsed life of the asset at the beginning of the year (Year)	10.00	11.00	12.00	13.00	14.00
Aggregated Depreciable Value	48012.92	48012.92	48012.92	48012.92	48012.92
Depreciation during the year	2793.33	2793.33	830.89	830.89	830.89
Cumulative Depreciation at the end of the year	27770.92	30564.25	31395.13	32226.02	33056.91
Remaining Aggregated Depreciable Value at the end of the Year	20242.00	17448.67	16655.55	15826.46	14997.55

Interest on Loan (IoL)

103. Regulation 32 of the 2019 Tariff Regulations provides as follows:-

"32. Interest on loan capital: (1) The loans arrived at in the manner indicated in Regulation 18 of these regulations shall be considered as gross normative loan for calculation of interest on loan.

(2) The normative loan outstanding as on 1.4.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2019 from the gross normative loan.

(3) The repayment for each of the year of the tariff period 2019-24 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of de-capitalization of asset, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered upto the date of de-capitalisation of such asset.

(4) Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be, the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.

(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized:

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered;

Provided further that if the generating station or the transmission system, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.



(5a) The rate of interest on loan for installation of emission control system shall be the weighted average rate of interest of actual loan portfolio of the emission control system or in the absence of actual loan portfolio, the weighted average rate of interest of the generating company as a whole shall be considered.

(6) The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

(7) The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing”.

104. The Petitioner has submitted that IoL is calculated for 2019-20 to 2023-24 as specified in Regulations 32 of the 2019 Tariff Regulations and has considered the weighted average interest rate of 2018-19 for the purpose of interest rates during 2019-20 to 2023-24. The repayment is considered equal to the depreciation for the year.

105. We have considered the submission of the Petitioner. As discussed earlier in this order, WAROI of 12.22% has been considered for truing up of tariff from 2015-16 to 2018-19. The same has been considered as WAROI for computing IoL for 2019-24 tariff period for the transmission assets. IoL considered for the transmission assets is as follows:

(₹ in lakh)

Particular	Asset-I				
	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Normative Loan	271205.94	271289.94	271289.94	271289.94	271289.94
Cumulative Repayments up to Previous Year	127563.86	147294.03	167027.37	186760.71	206494.06
Net Loan-Opening	143642.08	123995.91	104262.57	84529.23	64795.89
ACE	84.00	0.00	0.00	0.00	0.00
Repayment during the year	19730.17	19733.34	19733.34	19733.34	19733.34
Net Loan-Closing	123995.91	104262.57	84529.23	64795.89	45062.55
Average Loan	133819.00	114129.24	94395.90	74662.56	54929.22
Weighted Average Rate of Interest on Loan (%)	12.220	12.220	12.220	12.220	12.220
Interest on Loan	16352.68	13946.59	11535.18	9123.76	6712.35



(₹ in lakh)

Asset-II					
Particular	2019-20	2020-21	2021-22	2022-23	2023-24
Gross Normative Loan	37862.78	37862.78	37862.78	37862.78	37862.78
Cumulative Repayments up to Previous Year	24977.60	27770.92	30564.25	31395.13	32226.02
Net Loan-Opening	12885.19	10091.86	7298.54	6467.65	5636.76
ACE	0.00	0.00	0.00	0.00	0.00
Repayment during the year	2793.33	2793.33	830.89	830.89	830.89
Net Loan-Closing	10091.86	7298.54	6467.65	5636.76	4805.87
Average Loan	11488.52	8695.20	6883.09	6052.20	5221.31
Weighted Average Rate of Interest on Loan (%)	12.220	12.220	12.220	12.220	12.220
Interest on Loan	1403.90	1062.55	841.11	739.58	638.04

Return on Equity (RoE)

106. Regulations 30 and 31 of the 2019 Tariff Regulations provide as follows:-

"30. Return on Equity: (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with Regulation 18 of these regulations.

(2) Return on equity shall be computed at the base rate of 15.50% for thermal generating station, transmission system including communication system and run-of-river hydro generating station, and at the base rate of 16.50% for the storage type hydro generating stations including pumped storage hydro generating stations and run-of-river generating station with pondage:

Provided that return on equity in respect of additional capitalization after cutoff date beyond the original scope, excluding additional capitalization on 7 account of emission control system, shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or the transmission system or in the absence of actual loan portfolio of the generating station or the transmission system, the weighted average rate of interest of the generating company or the transmission licensee, as the case may be, as a whole shall be considered, subject to ceiling of 14%.

Provided further that:

i. In case of a new project, the rate of return on equity shall be reduced by 1.00% for such period as may be decided by the Commission, if the generating station or transmission system is found to be declared under commercial operation without commissioning of any of the Restricted Governor Mode Operation (RGMO) or Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system based on the report submitted by the respective RLDC;

ii. in case of existing generating station, as and when any of the requirements under (i) above of this Regulation are found lacking based on the report submitted by the concerned RLDC, rate of return on equity



shall be reduced by 1.00% for the period for which the deficiency continues;

iii. in case of a thermal generating station, with effect from 1.4.2020:

- a) rate of return on equity shall be reduced by 0.25% in case of failure to achieve the ramp rate of 1% per minute;
- b) an additional rate of return on equity of 0.25% shall be allowed for every incremental ramp rate of 1% per minute achieved over and above the ramp rate of 1% per minute, subject to ceiling of additional rate of return on equity of 1.00%:

Provided that the detailed guidelines in this regard shall be issued by National Load Dispatch Centre by 30.6.2019.

(3) The return on equity in respect of additional capitalization on account of emission control system shall be computed at the base rate of one year marginal cost of lending rate (MCLR) of the State Bank of India as on 1st April of the year in which the date of operation (ODe) occurs plus 350 basis point, subject to ceiling of 14%;

31. Tax on Return on Equity: (1) The base rate of return on equity as allowed by the Commission under Regulation 30 of these regulations shall be grossed up with the effective tax rate of the respective financial year. For this purpose, the effective tax rate shall be considered on the basis of actual tax paid in respect of the financial year in line with the provisions of the relevant Finance Acts by the concerned generating company or the transmission licensee, as the case may be. The actual tax paid on income from other businesses including deferred tax liability (i.e. income from business other than business of generation or transmission, as the case may be) shall be excluded for the calculation of effective tax rate.

(2) Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

$$\text{Rate of pre-tax return on equity} = \text{Base rate} / (1-t)$$

Where "t" is the effective tax rate in accordance with clause (1) of this Regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of generating company or transmission licensee paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess.

Illustration-

(i) In case of a generating company or a transmission licensee paying Minimum Alternate Tax (MAT) @ 21.55% including surcharge and cess:

$$\text{Rate of return on equity} = 15.50 / (1 - 0.2155) = 19.758\%$$

(ii) In case of a generating company or a transmission licensee paying normal corporate tax including surcharge and cess:



- (a) Estimated Gross Income from generation or transmission business for FY 2019-20 is Rs 1,000 crore;
 (b) Estimated Advance Tax for the year on above is Rs 240 crore;
 (c) Effective Tax Rate for the year 2019-20 = Rs 240 Crore/Rs 1000 Crore = 24%;
 (d) Rate of return on equity = $15.50 / (1 - 0.24) = 20.395\%$.

(3) The generating company or the transmission licensee, as the case may be, shall true up the grossed up rate of return on equity at the end of every financial year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2019-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries or the long term customers, as the case may be, on year to year basis."

107. The Petitioner has submitted that it has paid MAT rate of 21.549% for 2018-19. Hence, MAT rate of 21.549% has been considered by the Petitioner which results into RoE of 19.758% for the entire control period of 2019-20 to 2023-24 as per Regulation 30 and Regulation 31 of the 2019 Tariff Regulations.

108. We have considered the submission of the Petitioner. The MAT rate applicable in 2019-20 has been considered for the purpose of RoE, which shall be trued up with actual tax rate in accordance with Regulation 31(3) of the 2019 Tariff Regulations. RoE allowed for the transmission assets under Regulation 30 of the 2019 Tariff Regulations is as follows:

(₹ in lakh)

Asset-I					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Equity	116231.12	116267.12	116267.12	116267.12	116267.12
ACE	36.00	0.00	0.00	0.00	0.00
Closing Equity	116267.12	116267.12	116267.12	116267.12	116267.12
Average Equity	116249.12	116267.12	116267.12	116267.12	116267.12
Return on Equity (Base Rate) (%)	15.500	15.500	15.500	15.500	15.500
Tax Rate applicable (%)	17.472	17.472	17.472	17.472	17.472
Rate of Return on Equity (Pre-tax)	18.782	18.782	18.782	18.782	18.782
Return on Equity (Pre-tax)	21833.91	21837.29	21837.29	21837.29	21837.29



(₹ in lakh)

Asset-II					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Equity	16226.91	16226.91	16226.91	16226.91	16226.91
ACE	0.00	0.00	0.00	0.00	0.00
Closing Equity	16226.91	16226.91	16226.91	16226.91	16226.91
Average Equity	16226.91	16226.91	16226.91	16226.91	16226.91
Return on Equity (Base Rate) (%)	15.500	15.500	15.500	15.500	15.500
Tax Rate applicable (%)	17.472	17.472	17.472	17.472	17.472
Rate of Return on Equity (Pre-tax)	18.782	18.782	18.782	18.782	18.782
Return on Equity (Pre-tax)	3047.74	3047.74	3047.74	3047.74	3047.74

Operation & Maintenance Expenses (O&M Expenses)

109. Regulation 35(3)(a) of the 2019 Tariff Regulations provides as under:

“35 (3) Transmission system: (a) The following normative operation and maintenance expenses shall be admissible for the transmission system:

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Norms for sub-station Bays (₹ Lakh per bay)					
765 kV	45.01	46.60	48.23	49.93	51.68
400 kV	32.15	33.28	34.45	35.66	36.91
220 kV	22.51	23.30	24.12	24.96	25.84
132 kV and below	16.08	16.64	17.23	17.83	18.46
Norms for Transformers (₹ Lakh per MVA)					
765 kV	0.491	0.508	0.526	0.545	0.564
400 kV	0.358	0.371	0.384	0.398	0.411
220 kV	0.245	0.254	0.263	0.272	0.282
132 kV and below	0.245	0.254	0.263	0.272	0.282
Norms for AC and HVDC lines (₹ Lakh per km)					
Single Circuit (Bundled Conductor with six or more sub-conductors)	0.881	0.912	0.944	0.977	1.011
Single Circuit (Bundled conductor with four sub-conductors)	0.755	0.781	0.809	0.837	0.867
Single Circuit (Twin & Triple Conductor)	0.503	0.521	0.539	0.558	0.578
Single Circuit (Single Conductor)	0.252	0.260	0.270	0.279	0.289
Double Circuit (Bundled conductor with four or more sub-conductors)	1.322	1.368	1.416	1.466	1.517
Double Circuit (Twin & Triple Conductor)	0.881	0.912	0.944	0.977	1.011
Double Circuit (Single Conductor)	0.377	0.391	0.404	0.419	0.433
Multi Circuit (Bundled Conductor with four or more sub-conductor)	2.319	2.401	2.485	2.572	2.662
Multi Circuit (Twin & Triple Conductor)	1.544	1.598	1.654	1.713	1.773



Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
<i>Norms for HVDC stations</i>					
<i>HVDC Back-to-Back stations (Rs Lakh per 500 MW) (Except Gazuwaka BTB)</i>	834	864	894	925	958
<i>Gazuwaka HVDC Back-to-Back station (₹ Lakh per 500 MW)</i>	1,666	1,725	1,785	1,848	1,913
<i>500 kV Rihand-Dadri HVDC bipole scheme (Rs Lakh) (1500 MW)</i>	2,252	2,331	2,413	2,498	2,586
<i>±500 kV Talcher- Kolar HVDC bipole scheme (Rs Lakh) (2000 MW)</i>	2,468	2,555	2,645	2,738	2,834
<i>±500 kV Bhiwadi-Balia HVDC bipole scheme (Rs Lakh) (2500 MW)</i>	1,696	1,756	1,817	1,881	1,947
<i>±800 kV, Bishwanath-Agra HVDC bipole scheme (Rs Lakh) (3000 MW)</i>	2,563	2,653	2,746	2,842	2,942

Provided that the O&M expenses for the GIS bays shall be allowed as worked out by multiplying 0.70 of the O&M expenses of the normative O&M expenses for bays;

Provided further that:

- i. the operation and maintenance expenses for new HVDC bi-pole schemes commissioned after 1.4.2019 for a particular year shall be allowed pro-rata on the basis of normative rate of operation and maintenance expenses of similar HVDC bi-pole scheme for the corresponding year of the tariff period;*
- ii. the O&M expenses norms for HVDC bi-pole line shall be considered as Double Circuit quad AC line;*
- iii. the O&M expenses of ±500 kV Mundra-Mohindergarh HVDC bipole scheme (2000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ±500 kV Talchar-Kolar HVDC bi-pole scheme (2000 MW);*
- iv. the O&M expenses of ±800 kV Champa-Kurukshetra HVDC bi-pole scheme (3000 MW) shall be on the basis of the normative O&M expenses for ±800 kV, Bishwanath-Agra HVDC bi-pole scheme;*
- v. the O&M expenses of ±800 kV, Alipurduar-Agra HVDC bi-pole scheme (3000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ±800 kV, Bishwanath-Agra HVDC bi-pole scheme; and*
- vi. the O&M expenses of Static Synchronous Compensator and Static Var Compensator shall be worked at 1.5% of original project cost as on commercial operation which shall be escalated at the rate of 3.51% to work out the O&M expenses during the tariff period. The O&M expenses of Static Synchronous Compensator and Static Var Compensator, if*



required, may be reviewed after three years.

(b) The total allowable operation and maintenance expenses for the transmission system shall be calculated by multiplying the number of sub-station bays, transformer capacity of the transformer (in MVA) and km of line length with the applicable norms for the operation and maintenance expenses per bay, per MVA and per km respectively.

(c) The Security Expenses and Capital Spares for transmission system shall be allowed separately after prudence check:

Provided that the transmission licensee shall submit the assessment of the security requirement and estimated security expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification.

(4) Communication system: The operation and maintenance expenses for the communication system shall be worked out at 2.0% of the original project cost related to such communication system. The transmission licensee shall submit the actual operation and maintenance expenses for truing up."

110. The O&M Expenses for the 2019-24 period is specified in Regulation 35(3) of 2019 Tariff Regulations. The O&M Expenses has been calculated by multiplying the number of sub-station bays, transformer capacity of the transformer (in MVA) and km of line length with the applicable norms for the O&M Expenses per bay, per MVA and per km respectively.

111. Regulation 35(3)(a)(iii) specifies that the O&M Expenses of ± 500 kV Mundra - Mohindergarh HVDC Bi-pole scheme (2500 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M Expenses for ± 500 kV Talchar-Kolar HVDC Bi-pole scheme (2500 MW). Accordingly, the Petitioner has calculated the normative O&M Expenses for ± 500 kV Mundra-Mohindergarh HVDC Bi-pole scheme.

112. The Petitioner has claimed security expenses and capital spares for the 2019-24 tariff period. Further, as per Regulation 35(3)(a)(iv) of 2019 Tariff Regulation, the O&M Expenses of Static Synchronous Compensator and Static



Var Compensator shall be worked at 1.5% of original project cost as on commercial operation which shall be escalated at the rate of 3.51% to work out the O&M Expenses during the tariff period. Accordingly, the Petitioner has considered the O&M cost towards FSC for the 2019-24 tariff period.

113. Regulation 35(4) of the 2019 Tariff Regulations provides for grant of O&M Expenses for the communication system at the rate of 2.0% of the original project cost related to such communication system. The Petitioner has claimed O&M Expenses for the communication system as per the original project cost as per the approved capital cost of communication system. The details of O&M Expenses claimed by the Petitioner for tariff period 2019-24 are as follows:

(₹ in lakh)						
Asset	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Asset-I	O&M Expenses	6067.37	5458.99	5356.20	5564.83	5780.34
Asset-II	O&M Expenses	986.97	1017.97	1054.73	1092.76	1132.11

114. The break up of O&M Expenses claimed by the Petitioner for 2019-24 tariff period are as follows:

(₹ in lakh)						
Asset-I						
Element	2019-20	2020-21	2021-22	2022-23	2023-24	
(A)						
Transmission Line	1552	1606	1663	1721	1781	
Substation	2682	2777	2875	2976	3080	
Communication System	48.93	48.93	48.93	48.93	48.93	
Sub-total (A)	4284	4432	4586	4746	4910	
(B)						
Security Expenses	290	313	338	365	395	
Capital Spares consumed	1494	713	431	453	476	
Sub-total (B)	1784	1027	770	818	870	
Total O & M Expenses claimed (A+B)	6067	5459	5356	5565	5780	



Asset-II					
Element	2019-20	2020-21	2021-22	2022-23	2023-24
(A)					
Transmission Line	382	396	410	424	439
Substation	463	479	496	514	532
Communication System	1.57	1.57	1.57	1.57	1.57
Sub-total (A)	847	877	907	939	972
(B)					
Security Expenses	6	6	7	8	8
Capital Spares consumed	54	52	54	57	60
Sub-total (B)	60	58	61	65	68
(C)					
FSC	80	83	86	89	92
Total O&M Expenses claimed (A+B+C)	987	1018	1055	1093	1132

115. The Petitioner has claimed O&M Expenses for Power Line Carrier Communication (PLCC) equipment for the 2019-24 tariff period separately @2% of the original project cost of that communication system under Regulation 35(4) of the 2019 Tariff Regulations for the transmission assets.

116. It is observed that the Petitioner had considered PLCC equipment as part of the sub-station during the 2014-19 tariff period and it was granted O&M Expenses accordingly as part of the sub-station and no separate O&M Expenses was granted for PLCC equipment. However, the Petitioner in the instant petition for the tariff period 2019-24, has segregated a part of the capital cost of the assets towards PLCC equipment, i.e. ₹2447.00 lakh and ₹79.00 lakh for Asset-I and Asset-II and has claimed O&M Expenses of ₹48.93 lakh and ₹1.57 lakh, respectively @2% of the capital cost under Regulation 35(4) of the 2019 Tariff Regulations. The Commission has dealt similar issue in order dated 24.1.2021 in Petition No. 126/TT/2020, wherein it has been held as follows:

"97. In the 2014 Tariff Regulations, PLCC equipment were not included in the definition of communication system under Regulation 3(11) of the 2014 Tariff



Regulations and it rather formed part of sub-station. This is evident from Annexure Form 5 of Part-III of the 2014 Tariff Regulations, where PLCC equipment is included under the sub-station. Further, while fixing the norms for O&M Expenses for the 2014-19 tariff period, PLCC equipment were considered as part of the substation in the 2014 Tariff Regulations.

98. A combined reading of Regulation 3(12) of the 2019 Tariff Regulations and Regulation 2(i)(h) of the 2017 Communication Regulations shows that PLCC equipment is a communication system. However, it continues to be considered as part of the sub-station (as in the case of 2014-19 tariff period), even though a specific provision has been made in the 2019 Tariff Regulations allowing O&M Expenses @2% for the communication system. The same is clear from the various Forms that are required to be submitted by a transmission licensee in terms of the 2019 Tariff Regulations. Form 5 under Part-III of the 2019 Tariff Regulations (similar table is there in the 2014 Tariff Regulations) requires the transmission licensee to provide "Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System". Details are required to be furnished as regards a) transmission line (preliminary works, transmission lines material, taxes and duties); b) sub-stations (preliminary works & land, civil works, sub-station equipment, spares, taxes and duties); and c) communication system (preliminary works, communication system equipment, taxes and duties). We observe that PLCC forms a part (at Sl. No. 6.5) of sub-station equipment under the head 'sub-station equipment' and that there is no mention of PLCC under communication system.

99. Similarly, from table 3 of Form-2 under Part-III of the 2019 Tariff Regulations, it is observed that the types of communication system indicated are ULDC/SCADA/WAMS, fibre optic communication system, RTU/PABX/PMU and there is no mention of PLCC in this table. Other columns of this table require length of OPGW, number of RTUs and number of PMUs to be indicated by the transmission licensee. Again, we do not find any mention of PLCC equipment under communication system.

100. The Petitioner had itself considered PLCC equipment as part of the substation during the 2014-19 tariff period. In fact, for all sub-stations existing before 1.4.2019 and tariff for which have already been decided in previous tariff periods, the PLCC equipment were considered as part of sub-station and the Petitioner has also claimed it under sub-station and not claimed it under communication system. In this regard, we would like to refer to the claim made by the Petitioner for grant of tariff for the 2014-19 tariff period in Petition No. 404/TT/2014, where the Petitioner has claimed PLCC as part of sub-station in Form 5 and no claim was made in Form 2 for PLCC under heading "Communication system". Further, in the said petition, the Petitioner in Form 13 claimed the cost of PLCC under sub-station (₹9411.25 lakh = sub-station ₹9297.04 lakh + PLCC ₹114.21 lakh) for computation of initial spares in the Management certificate. Further, the cost of PLCC equipment is also included in the cost of the sub-station for the purpose of allowing initial spares.

101. It is observed that a fixed amount is allowed as O&M Expenses for a substation (in the form of "Rs. In lakh/ bay") in the 2014 Tariff Regulations for the 2014-19 tariff period on the basis of the type and voltage level of sub-station whereas for the 2019-24 tariff period, the 2019 Tariff Regulations provides for O&M Expenses for communication system @2% of the project cost. Thus, it appears that the Petitioner in the instant petition is attempting to take advantage of Regulation 35(4) of the 2019 Tariff Regulations which provides for O&M Expenses for



communication system @2% by segregating the project cost towards PLCC equipment during the 2019-24 tariff period.

102. As PLCC was considered as part of the sub-station, the cost of PLCC was also included in the capital cost of sub-station. Accordingly, as per Tariff Regulations, spares were approved as a percentage (%) of capital cost, considering this capital cost. Therefore, if now PLCC is not considered as part of the sub-station, then it would require revision of the approved capital cost.

103. Thus, although PLCC equipment is a communication system, it has been considered as a part of sub-station, as it is used both for protection and communication. Therefore, we are of the considered view that rightly, it was not considered for separate O&M Expenses while framing norms of O&M for 2019-24 tariff period. While specifying norms for bays and transformers, O&M Expenses for PLCC have been included within norms for O&M Expenses for sub-station. Norms of O&M Expenses @2% of the capital cost in terms of Regulation 35(4) of the 2019 Tariff Regulations have been specified for communication system such as PMU, RMU, OPGW etc. and not for PLCC equipment.

104. In the present petition, it is observed that the Petitioner in Form-5 for Asset1 for the 2014-19 tariff period has included the PLCC under the head Sub-station Equipment and has claimed actual expenditure incurred towards PLCC for an amount of ₹55.49 lakh. The Petitioner did not claim any capital expenditure towards Communication system in the 2014-19 tariff period. However, on perusal of the Auditor certificate dated 27.11.2019, it is observed that an amount of ₹62.61 lakh for Asset-1 and ₹57.83 lakh for Asset-2 have been shown against PLCC/ communication system, which adds up to ₹120.44 lakh. Thus, there is a discrepancy in the amount claimed by the Petitioner towards PLCC and the amount mentioned in the Auditor certificate.

105. In our view, granting of O&M Expenses for PLCC equipment @2% of its capital cost under Regulation 35(4) of the 2014 Tariff Regulations under the communication system head would tantamount to granting O&M Expenses twice for PLCC equipment as PLCC equipment has already been considered as part of the sub-station. Therefore, the Petitioner's prayer for grant of O&M Expenses for the PLCC equipment @2% of its capital cost under Regulation 35(4) of the 2014 Tariff Regulations is rejected.

106. The principle adopted in this petition that PLCC is part of sub-station and accordingly no separate O&M Expenses is admissible for PLCC equipment in the 2019-24 tariff period under Regulation 35(4) of the 2019 Tariff Regulations shall be applicable in case of all petitions where similar claim is made by the Petitioner. As already mentioned, the Commission, however, on the basis of the claim made by the Petitioner has inadvertently allowed O&M Expenses for PLCC equipment @2% of its original project cost, which is applicable for other "communication system", for 2019-24 period in 31 petitions given in Annexure-3 of this order. Therefore, the decision in this order shall also be applicable to all the petitions given in Annexure3. Therefore, PGCIL is directed to bring this decision to the notice of all the stakeholders in the 31 petitions given in Annexure-3 and also make revised claim of O&M Expenses for PLCC as part of the sub-station at the time of truing up of the tariff allowed for 2019-24 period in respective petitions."

117. Therefore, the Petitioner's claim for separate O&M Expenses for PLCC



@2% is not allowed.

118. The Petitioner has submitted that the security expenses and capital spares claimed in Form-2 are on estimation basis and that the actual security expenses and capital spares will be provided at the time of truing up. We have considered the submissions of the Petitioner. The Petitioner has not provided any details for the proposed security expenses and capital spares in case of Asset-I and Asset-II. Therefore, security expenses and capital spares are not being allowed at this stage. However, the Petitioner is given liberty to either approach the Commission through a separate petition for security expenses with all relevant details and basis of estimation or submit the actual security expenses at the time of true-up for appropriate consideration of the Commission. As regards the capital spares, the same shall be considered at the time of true-up.

119. The Petitioner has claimed O&M Expenses for FSC separately but has not submitted capital cost as on COD and also the tariff for FSC is not allowed separately. Therefore, we are not inclined to allow any O&M Expenses towards FSC.

120. The details of the O&M Expenses worked out for the transmission assets as per provisions of Regulations 35(3)(a) and 35(4) of the 2019 Tariff Regulations are as follows:

(₹ in lakh)					
Asset-I					
Element	2019-20	2020-21	2021-22	2022-23	2023-24
(A)					
Transmission Line					
Mundra-Mohindergarh Line (990 Kms) & Mohindergarh-Dhanonda Line (5 km)	1552.37	1606.48	1662.85	1721.48	1781.37



Sub-station					
400 kV bays at Mohindergarh/ Mundra/ Bhiwani Sub-station – 15 Numbers	482.25	499.20	516.75	534.90	553.65
HVDC Sub-station in Mundra & Mohindergarh	1974.40	2044.00	2116.00	2190.40	2267.20
Transformer for 400 kV bay (Capacity - 630 MVA)	225.54	233.73	241.92	250.74	258.93
Total (A)	4234.57	4383.42	4537.53	4697.52	4861.15

(₹ in lakh)

Asset-II					
Element	2019-20	2020-21	2021-22	2022-23	2023-24
(A)					
Transmission Line					
400 kV D/C Mundra-Sami & Dehgam-Sami (Twin Moose) Lines- (434 km)	382.35	395.80	409.69	424.01	438.77
Sub-station					
400 kV bays at Mundra Switch-yard/ Sami Sub-station/ Dehgam (PG) Sub-station -13 Numbers	417.95	432.64	447.85	463.58	479.83
220 kV ICT bays at Mundra Switchyard – 2 Numbers	45.02	46.60	48.24	49.92	51.68
Total (A)	845.32	875.04	905.79	937.51	970.28

121. Accordingly, O&M Expenses claimed by the Petitioner in the instant petition and O&M Expenses allowed in the instant order are shown in the table below:

(₹ in lakh)

Asset	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Asset-I	Claimed in the instant petition	6067.37	5458.99	5356.20	5564.83	5780.34
	Allowed in this order	4234.57	4383.42	4537.53	4697.52	4861.15

(₹ in lakh)

Asset	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Asset-II	Claimed in the instant petition	986.97	1017.97	1054.73	1092.76	1132.11
	Allowed in this order	845.32	875.05	905.79	937.51	970.28

Interest on Working Capital (IWC)



122. Regulations 34(1)(c), (3) and (4) and 3(7) of the 2019 Tariff Regulations provide as follows:

“34. Interest on Working Capital: (1) The working capital shall cover:

(c) For Hydro Generating Station (including Pumped Storage Hydro Generating Station) and Transmission System:

(i) Receivables equivalent to 45 days of annual fixed cost;

(ii) Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and

(iii) Operation and maintenance expenses, including security expenses for one month.”

(3) Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2019 or as on 1st April of the year during the tariff period 2019-24 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later:

Provided that in case of truing-up, the rate of interest on working capital shall be considered at bank rate as on 1st April of each of the financial year during the tariff period 2019-24.

(4) Interest on working capital shall be payable on normative basis notwithstanding that the generating company or the transmission licensee has not taken loan for working capital from any outside agency.”

“3. Definition - In these regulations, unless the context otherwise requires:-

(7) ‘Bank Rate’ means the one year marginal cost of lending rate (MCLR) of the State Bank of India issued from time to time plus 350 basis points;”

123. The Petitioner has submitted that it has computed IWC for the 2019-24 period considering the SBI Base Rate plus 350 basis points as on 1.4.2019. The Petitioner has considered the rate of IWC as 12.05%. The IWC is worked out in accordance with Regulation 34 of the 2019 Tariff Regulations. The rate of IWC considered is 12.05% (SBI 1 year MCLR applicable as on 1.4.2019 of 8.55% plus 350 basis points) for 2019-20 and 11.25% (SBI 1 year MCLR applicable as on 1.4.2020 of 7.75% plus 350 basis points) for 2020-21 and 10.50% (SBI 1 year MCLR applicable as on 1.4.2023 of 7.00% plus 350 basis points) for 2021-22



onwards. The components of the working capital and interest allowed thereon are as follows:

(₹ in lakh)

Asset-I					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Working Capital for Maintenance Spares (15% of O&M expenses)	635.19	657.51	680.63	704.63	729.17
Working Capital for O&M Expenses (O&M expenses for 1 month)	352.88	365.29	378.13	391.46	405.10
Working Capital for Receivables (Equivalent to 45 days of annual fixed cost/ annual transmission charges)	7771.33	7503.27	7213.80	6933.08	6634.41
Total Working Capital	8759.40	8526.06	8272.56	8029.17	7768.68
Rate of Interest (%)	12.05	11.25	10.50	10.50	10.50
Interest of working capital	1055.51	959.18	868.62	843.06	815.71

(₹ in lakh)

Asset-II					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Working Capital for Maintenance Spares (15% of O&M expenses)	126.80	131.26	135.87	140.63	145.54
Working Capital for O&M Expenses (O&M expenses for 1 month)	70.44	72.92	75.48	78.13	80.86
Working Capital for Receivables (Equivalent to 45 days of annual fixed cost/ annual transmission charges)	1012.63	975.37	705.43	696.80	686.41
Total Working Capital	1209.87	1179.55	916.78	915.56	912.81
Rate of Interest (%)	12.05	11.25	10.50	10.50	10.50
Interest of working capital	145.79	132.70	96.26	96.13	95.84

Annual Fixed Charges for the 2019-24 Tariff Period

124. The transmission charges allowed for the transmission asset for the 2019-24 tariff period are follows:

(₹ in lakh)

Asset-I					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	19730.17	19733.34	19733.34	19733.34	19733.34
Interest on Loan	16352.68	13946.59	11535.18	9123.76	6712.35
Return on Equity	21833.91	21837.29	21837.29	21837.29	21837.29



Interest on Working Capital	1055.51	959.18	868.62	843.06	815.71
Operation and Maintenance	4234.57	4383.42	4537.53	4697.52	4861.15
Total	63206.84	60859.83	58511.96	56234.98	53959.84

(₹ in lakh)

Asset-II					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	2793.33	2793.33	830.89	830.89	830.89
Interest on Loan	1403.90	1062.55	841.11	739.58	638.04
Return on Equity	3047.74	3047.74	3047.74	3047.74	3047.74
Interest on Working Capital	145.79	32.70	96.26	96.13	95.84
Operation and Maintenance	845.32	875.05	905.79	937.51	970.28
Total	8236.07	7911.37	5721.79	5651.85	5582.80

Filing Fee and Publication Expenses

125. The Petitioner has prayed for reimbursement of filing fee and publication expenses by the beneficiaries.

126. We have considered the submissions of the Petitioner. The Petitioner shall be entitled for reimbursement of the filing fees and publication expenses in connection with the present petition, directly from the beneficiaries on pro-rata basis in accordance with Regulation 70(1) of the 2019 Tariff Regulations.

Licence Fee and RLDC Fees and Charges

127. The Petitioner has prayed to bill and recover the licence fee and RLDC fees and charges, separately from the Respondents in terms of the Tariff Regulations.

128. We have considered the submissions of the Petitioner. The Petitioner shall be entitled for reimbursement of licence fee in accordance with Regulation 70(4) of the 2019 Tariff Regulations for the 2019-24 tariff period. The Petitioner shall also be entitled for recovery of RLDC fee and charges in accordance with Regulations 70(3) of the 2019 Tariff Regulations.



Goods and Services Tax

129. The Petitioner has submitted that if GST is levied at any rate and at any point of time in future on charges of transmission of electricity, the same shall be borne and additionally paid by the Respondents to the Petitioner and the same shall be charged and billed separately by the Petitioner. Further additional taxes, if any, are to be paid by the Petitioner on account of demand from Government/ Statutory authorities, the same may be allowed to be recovered from the beneficiaries.

130. We have considered the submission of the Petitioner. Since GST is not levied on transmission service at present, we are of the view that the Petitioner's prayer is premature.

Sharing of Transmission Charges

131. The Commission *vide* order dated 3.11.2017 In Petition No. 146/TT/2016 has held as under w.r.t. incentive and sharing of transmission charges of the transmission assets:

"Sharing of Transmission Charges

95. The transmission charges determined through this order shall be recovered through POC mechanism in accordance with the Sharing Regulations with effect from 1.10.2013. However, for calculating the incentive and target availability during 2009-14 tariff period, the relevant provision of the 2009 Tariff Regulations in respect of HVAC and HVDC shall be kept in view. Since the tariff of Asset-I has been worked out on consolidated basis the calculation of incentive in respect of HVAC and HVDC shall be in proportion to the capital cost of HVAC and HVDC as allowed in this order."

132. The Petitioner in the instant true up petition has again not submitted separate capital cost of HVAC and HVDC portion of Asset-I. Therefore, the proportion considered by CTU may be adopted for the calculation of incentive in respect of HVAC and HVDC in proportion to the capital cost of HVAC and HVDC



availability.

133. With effect from 1.7.2011, sharing of transmission charges for inter-State transmission systems was governed by the provisions of the 2010 Sharing Regulations. However, with effect from 1.11.2020, the 2010 Sharing Regulations has been repealed and sharing of transmission charges is governed by the provisions of the 2020 Sharing Regulations. Accordingly, the liabilities of DICs for arrears of transmission charges determined through this order shall be computed DIC-wise in accordance with the provisions of respective Tariff Regulations and shall be recovered from the concerned DICs through Bill 2 under Regulation 15(2)(b) of the 2020 Sharing Regulations. Billing, collection and disbursement of transmission charges for subsequent period shall be recovered in terms of provisions of the 2020 Sharing Regulations as provided in Regulation 57 of the 2019 Tariff Regulations.

134. To summarise:

(a) The trued-up Annual Fixed Charges allowed for the transmission assets for the 2014-19 tariff period are as follows:

(₹ in lakh)					
Asset	2014-15	2015-16	2016-17	2017-18	2018-19
Asset-I	75728.37	74122.59	71974.50	69740.94	67584.53
Asset-II	10673.38	10243.21	9936.46	9631.21	9336.16

(b) The Annual Fixed Charges allowed for the transmission assets for the 2019-24 tariff period in this order are as follows:

(₹ in lakh)					
Asset	2019-20	2020-21	2021-22	2022-23	2023-24
Asset-I	63206.84	60859.83	58511.96	56234.98	53959.84
Asset-II	8236.07	7911.37	5721.79	5651.85	5582.80

135. The Annexure-I and Annexure-II given hereinafter shall form part of the order.



136. As there is no necessity to revise the tariff granted vide order dated 18.3.2016 in Petition No.184/TT/2013 and tariff trued up vide order dated 3.11.2017 in Petition No.146/TT/2016 for the period 2013-14, the Petition No. 184/TT/2013 and Petition No.146/TT/2016 remain disposed of as per their respective order.

137. This order disposes of Petition No. 216/TT/2020 in terms of the above discussion and findings.

sd/-
(P.K. Singh)
Member

sd/-
(Arun Goyal)
Member

sd/-
(I.S. Jha)
Member

sd/-
(P.K. Pujari)
Chairperson



Asset-I

Annexure-I

2014-19 Capital Expenditure	Admitted Capital Cost as on 1.4.2014 (₹ in lakh)	ACE (₹ in lakh)		Admitted Capital Cost as on 31.3.2019 (₹ in lakh)	Rate of Depreciation (%)	Annual Depreciation as per Regulations				
		2014-15	2015-16			2014-15 (₹ in lakh)	2015-16 (₹ in lakh)	2016-17 (₹ in lakh)	2017-18 (₹ in lakh)	2018-19 (₹ in lakh)
Freehold Land	6070.00	-	-	6070.00	-	-	-	-	-	-
Leasehold Land	1030.15	-	-	1030.15	3.34%	34.41	34.41	34.41	34.41	34.41
Building & Other Civil Works	20141.40	934.00	385.00	21460.40	3.34%	688.32	710.35	716.78	716.78	716.78
Transmission Line	142761.37	6669.00	140.00	149570.37	5.28%	7713.86	7893.62	7897.32	7897.32	7897.32
Sub-Station Equipment	197495.27	8742.00	484.00	206721.27	5.28%	10658.54	10902.11	10914.88	10914.88	10914.88
PLCC	2584.87	-	-	2584.87	6.33%	163.62	163.62	163.62	163.62	163.62
IT and Software	-	-	-	-	15.00%	-	-	-	-	-
TOTAL	370083.06	16345.00	1009.00	387437.06		19258.75	19704.10	19727.01	19727.01	19727.01
Average Gross Block (₹ in lakh)						378255.56	386932.56	387437.06	387437.06	387437.06
Weighted Average Rate of Depreciation (WAROD)						5.09%	5.09%	5.09%	5.09%	5.09%



Asset-II

Annexure-I

2014-19	Admitted Capital Cost as on 1.4.2014 (₹ in lakh)	ACE (₹ in lakh)		Admitted Capital Cost as on 31.3.2019 (₹ in lakh)	Rate of Depreciation (%)	Annual Depreciation as per Regulations					
		2014-15	2015-19			2014-15 (₹ in lakh)	2015-16 (₹ in lakh)	2016-17 (₹ in lakh)	2017-18 (₹ in lakh)	2018-19 (₹ in lakh)	
Capital Expenditure											
Freehold Land	742.00			742.00	-	-	-	-	-	-	-
Leasehold Land	328.09			328.09	3.34%	10.96	10.96	10.96	10.96	10.96	10.96
Building & Other Civil Works	922.44			922.44	3.34%	30.81	30.81	30.81	30.81	30.81	30.81
Transmission Line	40122.46			40122.46	5.28%	2118.47	2118.47	2118.47	2118.47	2118.47	2118.47
Sub-Station Equipment	11895.93			11895.93	5.28%	628.11	628.11	628.11	628.11	628.11	628.11
PLCC	78.78			78.78	6.33%	4.99	4.99	4.99	4.99	4.99	4.99
IT and Software	-			-	15.00%	-	-	-	-	-	-
TOTAL	54089.69	-	-	54089.69		2793.33	2793.33	2793.33	2793.33	2793.33	
Average Gross Block (₹ in lakh)						54089.69	54089.69	54089.69	54089.69	54089.69	
Weighted Average Rate of Depreciation (WAROD)						5.16%	5.16%	5.16%	5.16%	5.16%	5.16%



Asset-I

Annexure- II

2019-24	Annual Depreciation as per Regulations										
Capital Expenditure	Admitted Capital Cost as on 1.4.2019 (₹ in lakh)	ACE (₹ in lakh)		Admitted Capital Cost as on 31.3.2024 (₹ in lakh)	Rate of Depreciation (%)	2019-20 (₹ in lakh)	2020-21 (₹ in lakh)	2021-22 (₹ in lakh)	2022-23 (₹ in lakh)	2023-24 (₹ in lakh)	
		2019-20	2020-24								
Freehold Land	6070.00			6070.00	-	-	-	-	-	-	
Leasehold Land	1030.15			1030.15	3.34%	34.41	34.41	34.41	34.41	34.41	
Building & Other Civil Works	21460.40			21460.40	3.34%	716.78	716.78	716.78	716.78	716.78	
Transmission Line	149570.37	120.00		149570.37	5.28%	7897.32	7897.32	7897.32	7897.32	7897.32	
Sub-Station Equipment	206721.27			206841.27	5.28%	10918.05	10921.22	10921.22	10921.22	10921.22	
PLCC	2584.87			2584.87	6.33%	163.62	163.62	163.62	163.62	163.62	
IT and Software	-			-	15.00%	-	-	-	-	-	
TOTAL	387437.06	120.00	-	3,87,557.06		19730.17	19733.34	19733.34	19733.34	19733.34	
				Average Gross Block (₹ in lakh)		387497.06	387557.06	387557.06	387557.06	387557.06	
				Weighted Average Rate of Depreciation (WAROD)		5.09%	5.09%	5.09%	5.09%	5.09%	



Asset-II

Annexure- II

2019-24	Admitted Capital Cost as on 1.4.2019 (₹ in lakh)	ACE (₹ in lakh)		Admitted Capital Cost as on 31.3.2024 (₹ in lakh)	Rate of Depreciation (%)	Annual Depreciation as per Regulations				
		2019-20	2020-24			2019-20 (₹ in lakh)	2020-21 (₹ in lakh)	2021-22 (₹ in lakh)	2022-23 (₹ in lakh)	2023-24 (₹ in lakh)
Capital Expenditure										
Freehold Land	742.00	-	-	742.00	-	-	-			
Leasehold Land	328.09	-	-	328.09	3.34%	10.96	10.96			
Building & Other Civil Works	922.44	-	-	922.44	3.34%	30.81	30.81			
Transmission Line	40122.46	-	-	40122.46	5.28%	2118.47	2118.47			
Sub-Station Equipment	11895.93	-	-	11895.93	5.28%	628.11	628.11			
PLCC	78.78	-	-	78.78	6.33%	4.99	4.99			
IT and Software	-	-	-	-	15.00%	-	-			
TOTAL	54089.69	120.00	-	54089.69		2793.33	2793.33			
				Average Gross Block (₹ in lakh)		54089.69	54089.69			
				Weighted Average Rate of Depreciation (WAROD)		5.16%	5.16%			



**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 13/TT/2023

Coram:

**Shri Jishnu Barua, Chairperson
Shri Arun Goyal, Member
Shri P. K. Singh, Member**

Date of Order: 29.03.2024

In the matter of:

Approval under Section 79 of Electricity Act, 2003 and Regulation 86 of Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999 and Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for determination of capital cost and transmission tariff pertaining to FY 2021-22 to FY 2023-24 for 12 Ohm series line reactors in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I & Circuit-II at Mohindergarh end Transmission system constructed, maintained and operated by Adani Transmission (India) Limited vide Licence No. 20/Transmission/2013/CERC and Licence amendment order in Petition No. 118/TL/2019.

And in the matter of:

Adani Transmission (India) Limited,
(earlier in the name of Adani Power Limited),
Adani Corporate House, Shantigram,
S. G. Highway, Khodiyar,
Ahmedabad-382421.

.....Petitioner

Versus

1. Power Grid Corporation of India Limited,
Saudamini, Plot-2, Sector-29,
Near IFFCO Chowk,
Gurugram-122001, Haryana.
2. Central Transmission Utility of India Limited,
Saudamini, Plot-2, Sector-29,
Near IFFCO Chowk,
Gurugram-122001, Haryana.
3. National Load Dispatch Centre,
B-9, Qutab Industrial Area, Katwaria Sarai,
New Delhi-110016.



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4. Northern Regional Load Despatch Centre,
18-A, Shaheed Jeet Singh Sansanwal Marg,
Katwaria Sarai, New Delhi-110016.
5. Western Regional Power Committee,
F-3, MIDC Area, Marol, Opp. SEEPZ,
Central Road, Andheri (East), Mumbai-400093.
6. Central Electricity Authority,
Sewa Bhawan, Sector-1,
R.K. Puram, New Delhi-110066.
7. Gujarat Energy Transmission Company Limited,
Sardar Patel Vidyut Bhavan, Race Course,
Vadodra-390007.
8. Haryana Vidyut Prasaran Nigam Limited,
1st Floor, Shakti Bhawan, Sector-6,
PanchKula-134109, Haryana.
9. Gujarat Urja Vikas Nigam Limited,
Sardar Patel Vidyut Bhawan, Race Course,
Vadodra-390007.
10. Maharashtra State Electricity Distribution Company Limited,
"Prakashgarh", Bandra (East),
Mumbai-400051, Maharashtra.
11. Madhya Pradesh Power Management Company Limited,
Shakti Bhawan, Vidyut Nagar, Rampur,
Jabalpur (MP)-482008.
12. M.P. Audyokik Kendra Vikas Nigam Limited,
Free Press House, 1st Floor, 3/54-Press Complex,
A. B. Road, Indore-452008, Madhya Pradesh.
13. Chhattisgarh State Power Distribution Company Limited,
Vidyut Seva Bhawan Parisar, Dangania,
Raipur-492013, Chhattisgarh.
14. Goa State Electricity Department,
Vidyut Bhawan, Panaji, Goa-403001.
15. Daman and Diu Electricity Department,
Administration of Daman & Diu,
Near Satya Narayan Temple,
Nani Daman-396210.



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16. Electricity Department,
Administration of Dadra Nagar Haveli,
Dadra Nagar Haveli UT, Silvassa-396230.
17. Heavy water Projects, Department of Atomic Energy,
Heavy Water Board, Vikram Sarabhai Bhawan,
Anushakti Nagar, Mumbai-400094.
18. Jindal Power Limited,
Tamnar, Raigarh, Chattisgarh-496001.
19. Torrent Power Limited,
Torrent House, Opposite Ashram Road,
Ahmedabad-380009.
20. PTC India Limited,
2nd Floor, NBCC Tower,
15, Bhikaji Complex,
New Delhi-110066.
21. Haryana Power Purchase Centre,
Shakti Bhawan, Sector-6,
Panchkula, (Haryana)-134109.
22. Rajasthan Power Procurement Centre,
Room No. 24, Vidyut Bhawan, Janpath,
Jyoti Nagar, Jaipur- 302005, Rajasthan.
23. Jodhpur Vidyut Vitran Nigam Limited,
New Power House Industrial Area,
Jodhpur-342003, Rajasthan.
24. Jaipur Vidyut Vitran Nigam Limited,
Vidyut Bhawan, Janpath, Jyoti Nagar, Jyoti Marg,
Jaipur-302005, Rajasthan.
25. Ajmer Vidyut Vitran Nigam Limited,
Old Power House, Hathi Bhatta,
Jaipur Road, Ajmer-305001, Rajasthan.
26. BSES Yamuna Power Limited,
Shakti Kiran Building, Karkardooma,
Delhi-110092.
27. BSES Rajdhani Power Limited,
BSES Bhawan, Nehru Place,
New Delhi-110019.



28. Tata Power Delhi Distribution Limited,
Cennet Building, 33 kV Substation Building,
Hudson Lines, Kingsway Camp, Delhi-110009.
29. New Delhi Municipal Council,
Palika Kendra Building, Opposite Jantar Mantra,
Parliament Street, New Delhi-110001.
30. Uttarakhand Power Corporation Limited,
Urja Bhawan, Kanwali Road,
Dehradun-248001.
31. Uttar Pradesh Power Corporation Limited,
Shakti Bhawan, 14, Ashok Marg,
Lucknow-226001, UP.
32. North Central Railway,
Allahabad, Uttar Pradesh.
33. Punjab State Power Corporation Limited,
The Mall, Ablowal, Patiala-147001.
34. Power Development Department,
Jammu and Kashmir,
Civil Secretariat, Jammu-180001.
35. Himachal Pradesh State Electricity Board,
Vidyut Bhawan, Shimla-171004.
36. Electricity Department UT Chandigarh,
Sector-9, Chandigarh.
37. Northern Regional Power Committee,
18-A, Qutab Institutional Area,
Shaheed Jeet Singh Marg, Katwaria Sarai,
New Delhi-110016.
38. Western Regional Power Committee,
F-3, M.I.D.C. Area, Marol,
Andheri 9East), Mumbai-400093.
39. Kanpur Electricity Supply Company Limited (NR),
14/71, Civil Lines, Kanpur-208001.
40. Rajasthan Rajya Vidyut Prasaran Nigam Limited,
Vidyut Bhawan, Vidyut Marg,
Jaipur- 302005.



41. Delhi Transco Limited,
Shakti Sadan, Kotla Road,
New Delhi-110002.

...Respondent(s)

For Petitioner : Shri Naresh Desai, ATIL
Shri Prashant Kumar, ATIL

For Respondents : Shri Varun K. Chopra, Advocate, MPPMCL
Shri Mehul Sharma, Advocate, MPPMCL
Shri Abhishek Kandwal, Advocate, MPPMCL

ORDER

The instant petition has been filed by Adani Transmission (India) Limited for the determination of capital cost and transmission tariff for 12 Ohm series line reactors in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I and Circuit-II at Mohindergarh end transmission system (hereinafter referred to as the "transmission asset") constructed, maintained and operated by Adani Transmission (India) Limited vide Licence No. 20/Transmission/2013/CERC and Licence amendment order in Petition No. 118/TL/2019 under Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as "the 2019 Tariff Regulations") for 2021-22 to 2023-24 period.

2. The Petitioner has made the following prayers in the instant petition:

- a) Approve the Capital Cost and Transmission Tariff for the tariff block FY 2021-22 to FY 2023-24 for the Asset III covered under this Petition, claimed in this petition.
- b) Approve the Additional capitalisation projected to be incurred during the tariff block of FY 2022-23 to FY 2023-24 as claimed in the Petition.
- c) Allow interim tariff in accordance with Regulation 10 (3) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for recovery of Transmission Tariff under CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020.
- d) Allow Final tariff in accordance with Regulation 10 (5) of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 for recovery of Transmission Tariff under CERC (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020.
- e) Approve the reimbursement of expenditure by the beneficiaries towards Petition filing fee, and expenditure on publishing of notices in newspapers in terms of Tariff



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- Regulations and other expenditure (if any) in relation to the filing of Petition;*
- f) *Allow the Petitioner to consider availability of the installed reactors along with the transmission line.*
 - g) *Allow the Petitioner to bill and recover the Licence fee and RLDC fees and charges, separately from the respondents in terms of Tariff Regulations: and*
 - h) *Pass such other and further order or orders as this Hon'ble Commission may deem fit and proper under the facts and circumstances of the present case and in the interest of justice."*

Background

3. The brief facts of the case are as follows:

(a) The Commission, vide order dated 29.7.2013 in Petition No. 44/TL/2012, granted the transmission licence and held that the transmission assets would be considered part of ISTS from the date of grant of the transmission license, i.e. with effect from 29.7.2013.

(b) The Commission, vide order dated 7.10.2019 in Petition No. 118/TL/2019, amended the transmission license of the Petitioner and included the 12 ohm series line reactor in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I and Circuit-II at Mohindergarh end. The relevant portion of the order dated 7.10.2019 in Petition No. 118/TL/2019 held as follows:

"9..... The Representative of NRLDC during the hearing on 27.9.2019 submitted that NRLDC has no objection to the amendment of license proposed in the Petition. Central Transmission Utility vide its letter dated 10.5.2019 has submitted that in order to control the fault level at 400 kV Mohindergarh sub-station developed by ATIL through TBCB route, installation of 12 ohm Series Line Reactor in each circuit of Mohindergarh-Dhanonda 400 kV D/C line at Mohindergarh end was agreed in the 39th meeting of the Standing Committee on Power System Planning of Northern Region held at 29/30-5.2017. CTU has further submitted that the scheme was also discussed in the 2nd Meeting of National Committee on Transmission (NCT) held on 4.12.2018 and NCT recommended implementation of above work. Considering all the materials on record, we are of view that it is in the public interest to approve amendment to the transmission license granted to the Petitioner, Adani Transmission (India) Ltd. to include 12 ohm Series Line Reactor in Mohindergarh-Dhanonda 400 kV D/c line ckt I & II at Mohindergarh end. Accordingly, we direct to include the above scope of work in the transmission license granted to the Petitioner vide Transmission License No. 20/Transmission/2013/CERC dated 29.7.2013. The licensee shall remain bound by the terms and conditions contained in the order dated 29.7.2013."



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(c) The Petitioner has commissioned the 12 Ohm series line reactors and claimed its capital cost as additional capital expenditure in 2021-22, along with the tariff of the other assets of the transmission project in Petition No. 216/TT/2020. However, the Commission, vide order dated 21.1.2022 in Petition No. 216/TT/2020, held that the 12 Ohm series reactors, which have been incorporated in the revised scope of the transmission project by way of amendment to the transmission licence of the Petitioner is to be reckoned as a new and distinct 'element' of the transmission project and it has to be treated distinctly and separate tariff has to be allowed for it. The relevant portion of the order dated 21.1.2022 in Petition No. 216/TT/2020 is extracted as follows:

"84. Therefore, the 12 ohm series reactor, which has been incorporated in the revised scope of the transmission project by way of amendment to the transmission license of the Petitioner is to be reckoned as a new and distinct 'element' of the transmission project. Therefore, the Petitioner is required to submit tariff application in accordance with 2019 Tariff Regulation with respect to the new and distinct 'element' ("12 ohm Series Line Reactor in 400 kV D/C Mohindergarh-Dhanonda 400kV line (Circuit-I & Circuit-II) at Mohindergarh end") of the transmission project.

85. Hence, we are not inclined to consider the "12 ohm Series Line Reactor in 400 kV D/C Mohindergarh-Dhanonda 400 kV line (Circuit-I & II) at Mohindergarh end" under the additional capitalisation provisions of the 2019 Tariff Regulations, since the said reactor is a distinct 'element' as defined under the 2014 Tariff Regulations. Moreover, the treatment of depreciation for the new 12 ohm series reactor, put into commercial operation in 2019-24 tariff period will be different from the depreciation allowed for the existing transmission assets put into commercial operation in the 2009-14 tariff regulations. Therefore, we are of the considered view that 12 ohm series reactor has to be treated distinctly and separate tariff has to be allowed for it."

(d) As per the Commission's above direction, the Petitioner has filed the instant petition. The Petitioner has claimed the COD of the transmission asset as 30.3.2022. In support of the COD claim in respect of the transmission asset, the Petitioner has submitted an RLDC charging certificate dated 8.4.2022.



(e) The Petitioner has submitted the in-principle approval of the company's Board of Directors (BoD) dated 12.11.2019. As per the said approval, the estimated cost is ₹50 crore.

(f) The Petitioner has submitted the details of the transmission assets under the licence issued to it and they are as follows:

Particulars	Asset I	Asset II	Asset III
AC system			
Transmission Line	400 kV D/C Mohindergarh-Dhanonda 400 kV D/C Mohindergarh-Bhiwani	400 kV D/C Mundra-Sami-Dehgam	
Sub-stations	- Sub-stations at Mundra & Mohindergarh - Bays at Bhiwani (PG) Sub-station	- Sub-stations at Mundra & Sami - Bays at Dehgam (PG) Sub-station	12 Ohm series line reactors in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I & Circuit-II at Mohindergarh end
HVDC System			
Transmission Line	± 500 kV Bipole Mundra-Mohindergarh HVDC line 33 kV D/C Electrode lines for HVDC Mundra and Mohindergarh Terminal Stations		
Sub-station	HVDC Terminal Stations at Mundra & Mohindergarh		

(g) The Commission, vide order dated 21.1.2022 in Petition No. 216/TT/2020, has trued-up the tariff for the 2014-19 tariff period and approved the tariff for the 2019-24 tariff period.

4. The Respondents are distribution licensees and the power departments in the Northern Region that are procuring transmission service from the Petitioner are the main beneficiaries .



5. The Petitioner has served the petition on the Respondents, and notice regarding the filing of this petition has also been published in newspapers in accordance with Section 64 of the Electricity Act, 2003. No comments or suggestions have been received from the general public in response to the aforesaid notice published in the newspapers by the Petitioner. M.P. Power Management Company Limited (MPPMCL), Respondent No. 11, vide affidavit dated 11.5.2023, has filed its reply. The Petitioner has filed a rejoinder vide affidavit dated 25.5.2023 in response to the reply filed by MPPMCL. The issues raised by MPPMCL and the clarifications given by the Petitioner are considered in the relevant portions of this order.

6. The hearing in this matter was held on 27.9.2023, and the order was reserved.

7. This order is issued considering the submissions made by the Petitioner in the petition, the Petitioner's affidavits dated 28.4.2023, 29.6.2023 and 16.10.2023, the reply filed by MPPMCL vide affidavit dated 11.5.2023, and the Petitioner's rejoinder vide affidavit dated 22.5.2023.

8. Having heard the representatives of the Petitioner and perused the material on record, we proceed to dispose of the petition.

DETERMINATION OF ANNUAL FIXED CHARGES FOR THE 2019-24 TARIFF PERIOD

9. The Petitioner has claimed the following transmission charges in respect of the transmission asset for the 2019-24 tariff period:

Particulars	(₹ in lakh)		
	2021-22	2022-23	2023-24
Depreciation	1.29	254.24	270.38
Interest on Loan	2.26	429.59	423.19
Return on Equity	1.38	271.31	288.53
O&M Expenses	0.06	12.53	12.84
Interest on Working Capital	0.00	0.00	0.00
Total	4.99	967.66	994.95



10. The Petitioner has claimed the following Interest on Working Capital (IWC) in respect of the transmission asset for the 2019-24 tariff period:

(₹ in lakh)			
Particulars	2021-22	2022-23	2023-24
O&M Expenses	0.00	0.00	0.00
Maintenance Spares	0.00	0.00	0.00
Receivables	1.00	119.00	122.00
Total Working Capital	1.00	119.00	122.00
Rate of Interest (in %)	10.50	10.50	10.50
Interest on Working Capital	0.00	13.00	13.00

Date of Commercial Operation ("COD")

11. The Petitioner has claimed the commercial operation of 12 Ohm series reactors as on 30.3.2022. In support of the claim of actual COD of the transmission asset, the Petitioner has submitted a CEA Energisation Certificate dated 10.3.2022. The Petitioner has completed the trial operation of 12 Ohm series line reactors installed on Circuit-I and Circuit-II on 29.3.2022 and 15.3.2022, respectively and submitted certification of the same from Power System Operation Corporation Limited on 8.4.2022 and self-declaration COD certificate as required under Grid Code.

12. Taking into consideration the CEA Energization certificate, RLDC charging certificate, and self-declaration COD certificate, the COD of the transmission asset is approved as 30.3.2022.

Capital Cost

13. Regulation 19 of the 2019 Tariff Regulations provides as follows:

"19. Capital Cost: (1) *The Capital cost of the generating station or the transmission system, as the case may be, as determined by the Commission after prudence check in accordance with these regulations shall form the basis for determination of tariff for existing and new projects.*

(2) *The Capital Cost of a new project shall include the following:*



- (a) *The expenditure incurred or projected to be incurred up to the date of commercial operation of the project;*
- (b) *Interest during construction and financing charges, on the loans (i) being equal to 70% of the funds deployed, in the event of the actual equity in excess of 30% of the funds deployed, by treating the excess equity as normative loan, or (ii) being equal to the actual amount of loan in the event of the actual equity less than 30% of the funds deployed;*
- (c) *Any gain or loss on account of foreign exchange risk variation pertaining to the loan amount availed during the construction period;*
- (d) *Interest during construction and incidental expenditure during construction as computed in accordance with these regulations;*
- (e) *Capitalised initial spares subject to the ceiling rates in accordance with these regulations;*
- (f) *Expenditure on account of additional capitalization and de-capitalisation determined in accordance with these regulations;*
- (g) *Adjustment of revenue due to sale of infirm power in excess of fuel cost prior to the date of commercial operation as specified under Regulation 7 of these regulations;*
- (h) *Adjustment of revenue earned by the transmission licensee by using the assets before the date of commercial operation;*
- (i) *Capital expenditure on account of ash disposal and utilization including handling and transportation facility;*
- (j) *Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of the generating station but does not include the transportation cost and any other appurtenant cost paid to the railway;*
- (k) *Capital expenditure on account of biomass handling equipment and facilities, for co-firing;*
- (l) *Capital expenditure on account of emission control system necessary to meet the revised emission standards and sewage treatment plant;*
- (m) *Expenditure on account of fulfilment of any conditions for obtaining environment clearance for the project;*
- (n) *Expenditure on account of change in law and force majeure events; and*
- (o) *Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.*

(3) *The Capital cost of an existing project shall include the following:*

- (a) *Capital cost admitted by the Commission prior to 1.4.2019 duly trued up by excluding liability, if any, as on 1.4.2019;*
- (b) *Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;*
- (c) *Capital expenditure on account of renovation and modernisation as admitted by this Commission in accordance with these regulations;*
- (d) *Capital expenditure on account of ash disposal and utilization including handling and transportation facility;*
- (e) *Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal up to the receiving end of generating station but does not include the transportation cost and any other*



- appurtenant cost paid to the railway; and*
- (f) *Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.*
- (4) *The capital cost in case of existing or new hydro generating station shall also include:*
- (a) *cost of approved rehabilitation and resettlement (R&R) plan of the project in conformity with National R&R Policy and R&R package as approved; and*
- (b) *cost of the developer's 10% contribution towards Rajiv Gandhi Grameen Vidyutikaran Yojana (RGGVY) and Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) project in the affected area.*
- (5) *The following shall be excluded from the capital cost of the existing and new projects:*
- (a) *The assets forming part of the project, but not in use, as declared in the tariff petition;*
- (b) *De-capitalised Assets after the date of commercial operation on account of replacement or removal on account of obsolescence or shifting from one project to another project:*
- Provided that in case replacement of transmission asset is recommended by Regional Power Committee, such asset shall be de-capitalised only after its redeployment;*
- Provided further that unless shifting of an asset from one project to another is of permanent nature, there shall be no de-capitalization of the concerned assets.*
- (c) *In case of hydro generating stations, any expenditure incurred or committed to be incurred by a project developer for getting the project site allotted by the State Government by following a transparent process;*
- (d) *Proportionate cost of land of the existing project which is being used for generating power from generating station based on renewable energy; and*
- (e) *Any grant received from the Central or State Government or any statutory body or authority for the execution of the project which does not carry any liability of repayment."*

14. The Petitioner has submitted that ₹5106.49 lakh has been incurred towards the total project cost. Out of the cost of ₹5106.49 lakh, an amount of ₹4509.21 lakh has been incurred as on COD, and an amount of ₹597.28 lakh has been incurred towards un-discharged liabilities which were discharged during 2022-23. The details of the



approved cost, cost as on COD, and additional capitalization claimed by the Petitioner are as follows:

(₹ in lakh)

Revised approval of Board of Director	Expenditure as on COD	Estimated Expenditure			Total estimated completion cost
		2021-22	2022-23	2023-24	
5106.49	4509.21	0.00	597.28	0.00	5106.49

15. The Petitioner, vide Auditor Certificate dated 9.8.2022, has submitted the following statement of capital expenditure towards the transmission asset:

Srl. No.	Particulars	As on 31.3.2022 (₹ in crore) as per audited books of accounts			As on 30.4.2022 (₹ in crore) as per unaudited books of accounts		
		Total Capital Expenditure	Capital Expenditure on cash basis	Undis-charged Liabilities	Total Capital Expenditure	Capital Expenditure on cash basis	Undis-charged Liabilities
1	Hard Cost	-	-	-	-	-	-
a.	Land	-	-	-	-	-	-
b.	Building	-	-	-	-	-	-
c.	Transmission Line	-	-	-	-	-	-
d.	Sub-station	44.76	40.51	4.25	44.76	40.51	4.25
e.	Communication System	-	-	-	-	-	-
	Total Hard Cost (a+b+c+d+e)	44.76	40.51	4.25	44.76	40.51	4.25
2	Add: IDC	4.59	4.58	0.01	6.30	6.30	-
	Total Capital Expenditure	49.35	45.09	4.26	51.06	46.81	4.25

16. The Petitioner, vide Auditor certificate dated 29.5.2023, has submitted the following statement of capital expenditure for the transmission asset:

Sl. No.	Particulars	As per unaudited books of Account			As per audited books of Account					As per audited books of Account				
		As on 30.3.2022 (₹ in crore) as per audited books of accounts			Transactions on 31.3.2022	As on 31.3.2022 (₹ in crore)				Addition during the financial year commencing on 1.4.2022 and ended on 31.3.2023	As on 31.3.2023			
		Total Capital Expenditure	Capital Expenditure on cash basis	Undis-charged Liabilities	Total Capital Expenditure	Capital Expenditure on cash basis	Total Capital Expenditure	Capital Expenditure on cash basis	Undis-charged Liabilities	Total Capital Expenditure	Capital Expenditure on cash basis	Total Capital Expenditure	Capital Expenditure on cash basis	Undis-charged Liabilities
1	Hard Cost	-	-	-	-	-	-	-	-	-	-	-	-	-
a.	Land	-	-	-	-	-	-	-	-	-	-	-	-	-



b.	Building	-	-	-	-	-	-	-	-	-	-	-	-	-
c.	Transmission Line	-	-	-	-	-	-	-	-	-	-	-	-	-
d.	Sub-station	44.36	40.51	3.85	0.4	-	44.76	40.51	4.25	0.15	4.4	44.91	44.91	-
e.	Communication System	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Hard Cost (a+b+c+d+e)	44.36	40.51	3.85	0.4	-	44.76	40.51	4.25	0.15	4.4	44.91	44.91	-
2	IEDC	-	-	-	-	-	-	-	-	-	-	-	-	-
3	Add: IDC	3.54	3.53	0.01	1.05	1.05	4.59	4.58	0.01	1.71	1.71	6.30	6.30	-

17. In response to the Commission's directions, vide RoP dated 6.4.2023, the Petitioner vide affidavit dated 28.4.2023 has made the following submissions:

(a) As per the procurement practice of the Petitioner, all its procurement is carried out through a competitive bidding process. Based on the identification of the requirement of procurement, Petitioner invites the bids from prospective bidders. Once the offers are received from the bidders, the Petitioner carries out negotiations in manual mode or reverse e-auction mode. Based on the final offer of bidders, a note is put up for management approval. In line with the approval note, the Petitioner issues a service order/ purchase order to the successful bidder on the SAP platform. The Petitioner is following the due process of competitive bidding for its procurement to get the right material at the right price.

The Petitioner has carried out a competitive bidding process where enquiry was floated on 19.9.2020. Subsequent to that, offers were sought from various bidders. The Petitioner has carried out an evaluation of all bidders on various criteria like confirmation of scope, project execution competencies, safety awareness, quality assurance past experience, etc. Evaluation Report dated 4.1.2020 for 400 kV, 12 Ohm, Series Reactor at Mohindergarh Sub-station. Subsequent to the evaluation report, ATIL carried out a reverse auction on 7.1.2020 where GE T&D emerged as the lowest bidder. Details of number of participants, price quote/ discovered is as follows:



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Sr. No.	Bidder Name	Amount (₹)
1	GE T&D	450839200
2	ABB	462790353
3	Siemens Limited	463628727

Accordingly, the Petitioner placed the purchase order to GE T&D for 400 kV, 12 Ohm, Series Reactor at Mohindergarh Sub-station after following a competitive bidding process.

(b) The details of the capital cost claimed in the petition are as follows:

(₹ in crore)			
Sr. No.	Particulars	Estimated Capital Cost	Actual Capital Cost
1	Hard Cost	47.50	44.76
2	IDC & IEDC	2.50	6.30
3	Total Capital Cost	50.00	51.06

There is a nominal increase of 2% in actual capital cost as compared to estimated capital cost and it is due to time over-run on account of *force majeure* conditions (Covid-19 impact and non-availability of shutdown from NRPC). Out of the total capital cost of ₹51.06 crore claimed, ₹44.76 crore is hard cost. The Petitioner has issued the purchase order to GE T&D India Limited after duly following the competitive bid process. Hence, the hard cost of ₹44.76 crore incurred is within range and legitimate. The Petitioner has incurred IDC of ₹6.30 crore as the project was delayed due to various *force majeure* events.

(c) Element-wise break-up of cost as per original estimates in Form-5. The Petitioner has incurred costs in four elements from various elements given in Form 5. The relevant element-wise break-up of capital cost as per the original estimate and actual capital cost as on COD is as follows:



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(₹ in lakh)			
Sr. No.	Breakdown	Capital cost as per original estimate	Actual capital cost as on CoD
1	Civil Work - Foundation for Structures	300.00	275.13
2	Substation Equipment - Compensating Equipment (Reactor, SVCs etc)	4350.00	4135.74
3	Construction and pre-commissioning expenses - site supervision & site admn. etc.	100.00	65.34
4	IDC and IEDC	250.00	630.28
5	Total capital cost	5000.00	5106.49

18. MPPMCL has submitted that the Petitioner has not provided any justification for cost over-runs and has not submitted any documents in support of its claim.

19. We have considered the submissions of the Petitioner and MPPMCL. There is an increase in the capital cost of the transmission asset by ₹106.49 lakh. The hard cost claimed by the Petitioner is within the estimated cost. The Petitioner, vide letter dated 12.5.2022, has submitted the approval of BoDs and the total capital cost (including undischarged liabilities) of ₹5106 lakh. Thus, the estimated completion cost of the transmission asset is within the approved cost and we approve the same.

Time over-run

20. The in-principle approval of BoDs submitted by the Petitioner does not specify the scheduled COD of the transmission asset. Therefore, the Commission vide RoP dated 6.4.2023 directed the Petitioner to submit "the SCOD of the transmission asset". In response, the Petitioner, vide affidavit dated 28.4.2023, has made the following submissions:

- (a) The office memorandum of the Ministry of Power dated 30.1.2019 states that the ECT, in its 3rd meeting held on 21.12.2018, has approved the implementation of 12 Ohm series line reactors in Mohindergarh-Dhanonda 400 kV D/C line Circuit-I and Circuit-II at Mohindergarh end under compressed time



schedule through regulated tariff mechanism (RTM). The relevant part of the office memorandum of the Ministry of Power dated 30.1.2019 is as follows:

"The undersigned is directed to inform that the Empowered Committee on Transmission (ECT), in its 3rd meeting, held on 21.12.2018 has approved the implementation of following transmission schemes along with the broad scope by Adani Power, under compressed time schedule through regulated tariff mechanism (RTM):"

- (b) The MoP granted approval to the Petitioner vide OM dated 30.1.2019. Consequent to the assignment of licence, all rights, and obligations of the Petitioner in respect of the transmission business are vested in the Petitioner. Hence, APL wrote a letter to the National Committee of Transmission on 13.2.2019 to allow the Petitioner to implement an additional transmission system.
- (c) The Petitioner filed Petition No. 118/TL/2019 seeking an amendment of the licence, and the Commission, vide order dated 7.10.2019, approved the amendment of transmission licence No. 20/Transmission/2013/CERC of the Petitioner.
- (d) Proactively, the Petitioner initiated the preliminary activities and enquiry was floated in the month of September 2019 to prospective bidders even before the licence amendment was approved by the Commission. Initial offers were received in the month of November 2019, and revised offers were received in the month of December 2019. Subsequently, the reverse auction was carried out on 7.1.2020 through the procure tiger portal. Acceptance of L1 schedule and supporting documents took place during February 2020. Based on the same, a Letter of Award (LoA) was issued to GE T&D on 9.3.2020, and the same was accepted by the Bidder on 13.3.2020.



(e) Based on various consultations/discussions with prospective bidders during bid time, the Petitioner had envisaged a time-frame of 12 months to complete the process of installation of 12 Ohm series line reactors from the date of award of work. The Petitioner issued LoA to GE T&D on 9.3.2020, and the delivery schedule date was provided as 8.3.2021. Accordingly, SCoD for the installation of 12 Ohm series line reactors at Mohindergarh end was envisaged as March 2021.

21. The Petitioner has submitted that the transmission asset was envisaged to be executed in 12 months. However, it took 24 months for the execution of the transmission asset. The scheduled COD is 8.3.2021, against which the transmission asset was put into commercial operation on 30.3.2022 with a time over-run of 387 days. The Petitioner has attributed the time over-run to (i) the Covid-19 Pandemic (8 months as allowed by MoP) and (ii) Non-grant of shutdown by NRPC. Detailed reasons for time over-run are discussed in subsequent paragraphs.

22. The Petitioner has submitted that immediately after issuing work to GE T&D in March, 2020, COVID-19 impacted the whole world and nationwide lockdowns along with international travel restrictions across countries were imposed. The Petitioner issued a *force majeure* notice for the same. As part of the *force majeure* notice, the Petitioner has also provided a letter dated 11.4.2020 from the EPC contractor as part of the *force majeure* Notice. EPC contractor, vide its letter dated 11.4.2020, issued notice under *force majeure* due to the Covid-19 pandemic and its impact on manufacturing, supply chain, logistics site service, etc. The Petitioner has submitted that MoP, vide its letter dated 27.7.2020, provided an extension of five months to TSP/



Transmission Licensees for completion of under- construction inter-State transmission projects due to the Covid-19 outbreak.

23. The Petitioner has submitted that after receipt of material in January, 2021, all other activities (excluding shutdown related) were carried out and completed by the EPC contractor in the month of April 2021. The Petitioner was not granted shutdown because of the situation at that time. Partial circuit-wise shutdowns were allowed by NRPC from November, 2021 onwards, and the Petitioner completed its shutdown related activities. The Petitioner was able to complete a successful trial run operation of Ckt-II on 15.3.2022 and Ckt-I on 29.3.2022. No shutdown was sought in June, 2021 due to the non-availability of manpower because of the Covid-19 second wave. In January 2022, the Petitioner was verbally communicated not to apply for outage considering the critical requirement of the circuit in the grid. The Petitioner has submitted that it carried out all activities in a timely manner, which were in its control. The Petitioner has submitted that the time over-run was due to *force majeure* events (either COVID-19 restrictions or non-allowance of shutdown) and has requested to condone the time over-run. The Petitioner has also submitted that it has provided details of the monthly shutdown sought from April 2021 onwards and their approval/ rejection.

24. The Petitioner has submitted the following timeline for various activities, and it is as follows:

Sl. No.	Activity	Timeline	Remarks
1	Office Memorandum of MoP	30.1.2019	-
2	APL letter to Chairman NCT	13.2.2019	-
3	Minutes of 3 rd meeting of "National Committee on Transmission" (NCT) held on 1.3.2019	14.3.2019	-



Sl. No.	Activity	Timeline	Remarks
4	Filing of Amendment Petition with the Commission (Petition No. 118/TL/2019)	8.4.2019	-
5	Issuance of order by the Commission in Petition No. 118/TL/2019	7.10.2019	-
6	Floating of enquiry	September, 2019	-
7	Initial Offer & revised Offers from prospective Bidders	November, 2019	
8	Meeting with prospective bidders	December, 2019	
9	Reverse Bidding Process	January, 2020	
10	Acceptance of T&C, L1 schedule and supporting documents	February, 2020	
11	Issuance of Letter of Award to Successful Bidder	March, 2020	
12	Acceptance of Letter of Award by Successful Bidder	March, 2020	
13	Completion of Activities by ATIL (except shutdown related)	April, 2021	Covid-19 impact in India and International travel restrictions, MoP provided extension of 5 months
14	Commercial Operation of 12 Ohm Series line Reactor	March, 2022	• Due to Covid-19 second wave, MoP provided extension of 3 months. • Shutdown was not allowed by NRPC, even when shutdown was given it was given for partial period and for each circuit.

Analysis and decision

25. The IA was approved by the BoD on 21.11.2019. The Petitioner has considered 12 months from the date of issue of LoA, on 9.3.2020, as the scheduled CoD. Accordingly, the scheduled COD is 8.3.2021, against which the transmission asset was put into commercial operation on 30.3.2022 with a time over-run of 387 days.

26. The Petitioner has attributed the time over-run Covid-19 pandemic and non-approval of shutdown by NRPC. The Petitioner has submitted that the construction activities of the transmission asset were severely affected by the nationwide lockdown measures announced on 25.3.2020 to contain an outbreak of Covid-19 and by the



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second wave of the Covid-19 pandemic. The Petitioner has sought relief under the MoPs letters dated 27.7.2020 and 12.6.2021 granting an extension of COD by 5 months and 3 months, respectively, for inter-State transmission projects.

27. MPPMCL has submitted that the Petitioner has not provided any justification for time over-run, and the same may not be condoned.

28. We have considered the submissions of the Petitioner and MPPMCL. MoP vide letter dated 27.7.2020 allowed extension of COD of transmission projects which were under construction as on 25.3.2020. A further extension of 3 months in COD was allowed by MoP, vide letter dated 12.6.2021, in the case of the transmission projects which were under construction as on 1.4.2021.

29. The relevant portion of the letter dated 27.7.2020 is as follows:

"Sub: Extension to TSP/Transmission Licensees for completion of under construction inter-State transmission projects

Sir,

I am directed to state that transmission utilities have pointed out that construction activities at various transmission project sites have been severely affected by the nationwide lockdown measures announced since 25th march, 2020 to contain outbreak of COVID-19 and have requested for extension of Scheduled Commercial Operation (SCOD) to mitigate the issues of disruption in supply chains and manpower, caused due to outbreak of COVID-19 pandemic. 2. It has been, therefore, decided that;

- i. All inter-state transmission projects, which were under construction as on date of lock-down i.e. 25th March 2020, shall get an extension of five months in respect of SCOD*
- ii. This order shall not apply to those projects, whose SCOD date was prior to 25th March 2020*
- iii. Start date of Long Term Access granted to a generator by CTU based on completion of a transmission line, whose SCOD is extended by 5 months due to COVID-19 as mentioned above at point(i), shall also be extended by 5 months."*

30. The relevant portion of the MoP's order dated 12.6.2021 is as follows:



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“Sub: Extension to TSP/Transmission Licensees for completion of under construction inter-State transmission projects – reg.

Sir,

I am directed to state that transmission utilities have approached this Ministry stating that construction activity at various transmission projects sites have been severely affected by the current second wave of COVID-19 pandemic and various measures taken by State/UT Governments to contain the pandemic; such as night curfew, imposition of section 144, weekend lockdown and complete lockdown. In this regard they have requested for extension of Scheduled Commercial Operation Date (SCOD) for the undergoing Transmission projects to mitigate the issues of disruption in supply chains and manpower, caused due to COVID-19 pandemic.

2. The matter has been examined in the Ministry and it has been noted that unlike last year complete lock-down in the entire country, this time different States/UTs have ordered lock-down in their State/UTs as per their own assessments. Therefore, after due consideration, it has been decided that; i. All inter-state transmission projects, which are under construction with SCOD coming after 01 April 2021 shall get an extension of three (3) months in respect of their SCOD; ii. The commencement date of Long Term Access (LTA) to a generator by CTU based on completion of a transmission line, whose SCOD is extended by three (3) months due to COVID-19 as mentioned above at point(i), shall also be extended by three (3) months.

3. This issue with the approval of Competent Authority.”

31. The scheduled COD of the project was 8.3.2021. In terms of the above letters dated 27.7.2020 and 12.6.2021, the COD of the transmission asset has to be extended by 5 months and 3 months, respectively. As per the said letters, the extended COD of the transmission asset was 8.11.2021. However, the transmission asset was put into commercial operation on 30.3.2022. Thus, there is a time over-run of 142 days beyond 8.11.2021.

32. The other reason given by the Petitioner for the time over-run is the non-approval of shutdown by NRPC. We have gone through the submissions of the Petitioner. The Petitioner has submitted minutes of the various OCC meetings regarding approval of the shutdown and the details of the same is as follows:



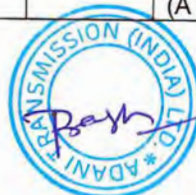
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Scheduled outage proposal for May, 2021 to March, 2023-NRPC System									
Sr. No	Line/Equip-ment	From date	From time	To Date	To Time	Basis	Reason	Agency	Approval status
1	400 kV Adani-Dhanoda Ckt-2	3.5.2021	08:00	31.5.2021	18:00	Continu-ous	For Erection of series reactor in Adani-Dhanoda CKT-2	ATIL	Rejected
2	400 kV Adani-Dhanoda Ckt-1	1.7.2021	08:00	28.7.2021	20:00	Continu-ous	Continuous shutdown required for completion of all Erection activities for Line-1	ATIL	Rejected
3	400 kV Adani-Dhanoda Ckt-1	16.8.2021	08:00	13.9.2021	20:00	Continu-ous	Continuous shutdown required for completion of all Erection activities for Line-1	ATIL	Rejected
4	400 kV Adani-Dhanoda Ckt-1	2.9.2021	08:00	30.9.2021	20:00	Continu-ous	Shutdown required for Testing and commissioning of Line-1	ATIL	Rejected
5	400 kV Adani-Dhanoda Ckt-1	2.10.2021	08:00	30.10.2021	20:00	Continu-ous	Continuous shutdown required for completion of all Erection activities for Line-1	ATIL	Rejected
6	400 kV Adani-Dhanoda Ckt-1	2.11.2021	08:00	30.11.2021	20:00	Continu-ous	Continuous shutdown required for completion of all Erection activities for Line-1	ATIL	Approved
7	400 kV Adani-Dhanoda Ckt-2	1.12.2021	08:00	22.12.2021	20:00	Continu-ous	Erection & Commissioning of 400 kV Mahindergarh (APL)-Dhanoda (HV)(ATIL) CKT-1.	ATIL	Approved
8	400 kV Adani-Dhanoda Ckt-1	24.12.2021	08:00	31.12.2021	20:00	Continu-ous	Connection of new equipment with existing 400 kV Mahindergarh (APL)-Dhanoda (HV) (ATIL)Ckt-2	ATIL	Rejected



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9	400 kV Adani- Dhanoda Ckt-1	1.2.2022	08:00	15.2.2022	18:00	Continu ous	Continuous shutdown required for Commissionin g and testing Activities of New 12 ohm Series Reactor for 400 kV Mahindergarh (APL)- Dhanoda (HV) (ATIL)Ckt-1	ATIL	Approved
10	400 kV Adani- Dhanoda Ckt-2	16.2.2022	08:00	28.2.2022	18:00	Continu ous	Continuous shutdown required for Commissionin g and testing Activities of New 12 ohm Series Reactor for 400 kV Mahindergarh (APL)- Dhanoda (HV) (ATIL)Ckt-2	ATIL	Approved
11	400 kV Adani- Dhanoda Ckt-2	1.3.2022	08:00	11.3.2022	18:00	Continu ous	Continuous shutdown required for Commissionin g and testing Activities of New 12 ohm Series Reactor for 400 kV Mahindergarh (APL)- Dhanoda (HV) (ATIL)Ckt-2	ATIL	Approved
12	400 kV Adani- Dhanoda Ckt-1	12.3.2022	08:00	22.3.2022	18:00	Continu ous	Continuous shutdown required for Commissionin g and testing Activities of New 12 ohm Series Reactor for o 400 kV Mahindergarh (APL)- Dhanoda (HV) (ATIL)Ckt-1	ATIL	Approved

33. From the above, it is observed that the Petitioner obtained approval for the shutdown in March, 2022. We also went through the 192nd OCC Meeting held on



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17.2.2022, wherein the shutdown was approved from 1.3.2022 to 11.3.2022 for 400 kV Mahinderga RH(APL)-Dhanoda (HV) (ATIL) CKT- 2 and from 12.3.2022 to 22.3.2022 for 400 kV Mahinderga RH(APL)-Dhanoda (HV) (ATIL) CKT-1 and finally the transmission asset was put into commercial operation on 30.3.2022. From the table in the paragraph above, it is observed that on a number of occasions, the Petitioner's request for shut down between July 2021 and December 2021 was rejected. We are of the view that the time over-run from 8.11.2021 to 30.3.2022 (142 days) was due to non-approval of the shutdown, and it was beyond the control of the Petitioner. Therefore, the time over-run of 142 days in the case of the transmission asset from 8.11.2021 to 30.3.2022 is, accordingly, condoned.

Interest During Construction (IDC)

34. The Petitioner has claimed an amount of ₹630.28 lakh as IDC for the transmission asset. The Petitioner has submitted an Auditor's Certificate in support of the claim of IDC. The Petitioner has submitted that it has borrowed an amount of ₹29.44 crore from Adani Transmission Limited at an interest rate of 13.25% per annum. The interest payment date is 15 days from the end of the quarter. Accordingly, the Petitioner has claimed the IDC of ₹630.28 lakh considering the interest rate of 13.25% per annum.

35. The Petitioner was directed vide RoP dated 6.6.2023 to furnish the reasons for availing of ICD (Inter-Company Deposit) Loan @13.25% instead of a bank or any other financial institution. In response, the Petitioner has submitted as follows:

"Adani Transmission (India) Limited has availed Long Term Loan in the form of Inter Corporate Deposit (ICD) from Adani Transmission Limited. ATL had infused Fixed rate ICD @ 13.25% in ATIL as a refinancing of existing external Loan. As ATL has already funded ATIL in way of long-term loan and considering nominal additional project cost



ATIL has approached ATL to fund project (12 OHM Series Line Reactor) with existing rate of interest rather than securing loan from external market.

Sourcing additional loan from market (bank or any other financial institutions) would cause additional cost in form of processing fees/ Rating agency certification/ upfront fees, which would be time consuming and result in delay of project execution considering timeline to complete the project."

36. We have considered the submissions of the Petitioner. It is observed that the rate of interest claimed by the Petitioner for computing IDC, as well as Interest on Loan (IoL) for the transmission asset, is 13.25%. The Petitioner has availed of an Inter-company Deposit (ICD) from its group company instead of taking a loan from a bank or any other financial institution. The Petitioner, in justification, has submitted that Adani Transmission Limited (ATL) had infused ICD @ 13.25% in the Petitioner's company as a refinancing of an existing external loan. The Petitioner has further submitted that sourcing additional loans from banks or any other financial institutions would cause additional costs in the form of processing fees/ rating agency certification/ upfront fees, which would be time consuming and result in a delay in the execution of the project. Therefore, ATIL has availed ICD from ATL to fund the transmission asset. .

37. The Petitioner has claimed an interest rate of 13.25% for claiming IDC as well as IoL. We have perused the financial statements and other documents of Adani Energy Solutions Ltd, formerly known as Adani Transmission Ltd., available in the public domain. It is observed that the average cost of debt for the year 2021-22 is around 9.20%. The Petitioner's claim of a 13.25% rate of interest is much higher than the average cost of debt of Adani Energy Solutions Ltd. Therefore, we are not inclined to allow the Petitioner's claim of 13.25% as the rate of interest.



38. We allow the interest rate of 9.20% on a provisional basis for computing the IDC and IOL of the transmission asset. The Petitioner is directed to submit the details of the weighted average interest rate of its parent company, i.e. Adani Energy Solutions Ltd. for review at the time of truing up. The loan amount details submitted in Form-9C for the 2019-24 tariff period have been considered for the purpose of IDC calculations on a cash and accrued basis. The un-discharged IDC as on COD of the transmission asset has been considered as ACE during the year in which it has been discharged.

39. an The IDC worked out for transmission asset is as follows:

(₹ in lakh)

IDC claimed	IDC admissible	IDC disallowed	IDC discharged as on COD	IDC un-discharged as on COD
A	B	C=A-B	D	E=B-D
630.28	436.89	193.39	370.84	66.04

40. In view of the above, we have considered the claim of the Petitioner as on COD and adjusted the capital cost as on COD to the extent of computational difference of ₹164.32 lakh. Further, IDC of ₹29.07 lakh is deducted from the ACE of 2022-23. Therefore, the capital cost as on COD considered for the purpose of tariff calculation, including IDC, is as follows:

(₹ in lakh)

Capital cost claimed as on COD	IDC disallowed due to computational difference as on COD	Capital cost allowed as on COD
A	B	C=A-B
4509.21	164.32	4344.89

Additional Capital Expenditure (ACE)

41. Regulation 24 of the 2019 Tariff Regulations provides as follows:



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"24. Additional Capitalisation within the original scope and up to the cut-off date

(1) The additional capital expenditure in respect of a new project or an existing project incurred or projected to be incurred, on the following counts within the original scope of work, after the date of commercial operation and up to the cut-off date may be admitted by the Commission, subject to prudence check:

- (a) Undischarged liabilities recognized to be payable at a future date;
- (b) Works deferred for execution;
- (c) Procurement of initial capital spares within the original scope of work, in accordance with the provisions of Regulation 23 of these regulations;
- (d) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority or order or decree of any court of law;
- (e) Change in law or compliance of any existing law; and
- (f) Force Majeure events:

Provided that in case of any replacement of the assets, the additional capitalization shall be worked out after adjusting the gross fixed assets and cumulative depreciation of the assets replaced on account of de-capitalization.

(2) The generating company or the transmission licensee, as the case may be shall submit the details of works asset wise/work wise included in the original scope of work along with estimates of expenditure, liabilities recognized to be payable at a future date and the works deferred for execution."

42. The Petitioner has claimed ₹597.28 lakh as Additional Capital Expenditure during the 2022-23 period. The said amount claimed by the Petitioner is proposed to be discharged during 2022-23, which includes an amount of ₹425.00 lakh against sub-station equipment and an amount of undischarged IDC.

43. We have considered the submissions of the Petitioner. The ACE claimed by the Petitioner for 2022-23 towards undischarged liability of ₹597.28 lakh is allowed under Regulation 24(1)(a) of the 2019 tariff Regulations after reducing the disallowed IDC of ₹ 29.07 lakh. Accordingly, the capital cost of the transmission asset considered for the 2019-24 tariff period, subject to truing up, is as follows:

(₹ in lakh)		
Capital cost allowed as on COD	Additional capitalization allowed from COD to 31.3.2024	Total completion cost up to 31.3.2024
4344.89	568.21	4913.09



Debt-Equity ratio

44. Regulation 18 of the 2019 Tariff Regulations provides as follows:

“18. Debt-Equity Ratio: (1) For new projects, the debt-equity ratio of 70:30 as on date of commercial operation shall be considered. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:

Provided that:

- i. where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:
- ii. the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:
- iii. any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt: equity ratio.

Explanation-The premium, if any, raised by the generating company or the transmission licensee, as the case may be, while issuing share capital and investment of internal resources created out of its free reserve, for the funding of the project, shall be reckoned as paid up capital for the purpose of computing return on equity, only if such premium amount and internal resources are actually utilised for meeting the capital expenditure of the generating station or the transmission system.

(2) The generating company or the transmission licensee, as the case may be, shall submit the resolution of the Board of the company or approval of the competent authority in other cases regarding infusion of funds from internal resources in support of the utilization made or proposed to be made to meet the capital expenditure of the generating station or the transmission system including communication system, as the case may be.

(3) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, debt: equity ratio allowed by the Commission for determination of tariff for the period ending 31.3.2019 shall be considered:

Provided that in case of a generating station or a transmission system including communication system which has completed its useful life as on or after 1.4.2019, if the equity actually deployed as on 1.4.2019 is more than 30% of the capital cost, equity in excess of 30% shall not be taken into account for tariff computation;

Provided further that in case of projects owned by Damodar Valley Corporation, the debt: equity ratio shall be governed as per sub-clause (ii) of clause (2) of Regulation 72 of these regulations.

(4) In case of the generating station and the transmission system including communication system declared under commercial operation prior to 1.4.2019, but where debt: equity ratio has not been determined by the Commission for determination of tariff for the period ending 31.3.2019, the Commission shall approve the debt: equity ratio in accordance with clause (1) of this Regulation.



(5) Any expenditure incurred or projected to be incurred on or after 1.4.2019 as may be admitted by the Commission as additional capital expenditure for determination of tariff, and renovation and modernisation expenditure for life extension shall be serviced in the manner specified in clause (1) of this Regulation."

(6) Any expenditure incurred for the emission control system during the tariff period as may be admitted by the Commission as additional capital expenditure for determination of supplementary tariff, shall be serviced in the manner specified in clause (1) of this Regulation."

45. The Petitioner has claimed a Debt-Equity Ratio of 66:34 as per Form-6. We have considered the debt-equity ratio in accordance with Regulation 18 of the 2019 Tariff Regulations. The details of the debt-equity ratio as on COD and as on 31.3.2024 with respect to the transmission asset are as follows:

Particulars	Capital cost as on COD (₹ in lakh)	(in %)	Capital cost as on 31.3.2024 (₹ in lakh)	(in %)
Debt	3041.42	70.00	3439.17	70.00
Equity	1303.47	30.00	1473.93	30.00
Total	4344.89	100.00	4913.09	100.00

Depreciation

46. Regulation 33 of the 2019 Tariff Regulations provides as follows:

"33. Depreciation: (1) Depreciation shall be computed from the date of commercial operation of a generating station or unit thereof or a transmission system or element thereof including communication system. In case of the tariff of all the units of a generating station or all elements of a transmission system including communication system for which a single tariff needs to be determined, the depreciation shall be computed from the effective date of commercial operation of the generating station or the transmission system taking into consideration the depreciation of individual units:

Provided that effective date of commercial operation shall be worked out by considering the actual date of commercial operation and installed capacity of all the units of the generating station or capital cost of all elements of the transmission system, for which single tariff needs to be determined.

(2) The value base for the purpose of depreciation shall be the capital cost of the asset admitted by the Commission. In case of multiple units of a generating station or multiple elements of a transmission system, weighted average life for the generating station of the transmission system shall be applied. Depreciation shall be chargeable from the first year of commercial operation. In case of commercial operation of the asset for part of the year, depreciation shall be charged on pro rata basis.

(3) The salvage value of the asset shall be considered as 10% and depreciation



shall be allowed up to maximum of 90% of the capital cost of the asset:

Provided that the salvage value for IT equipment and software shall be considered as NIL and 100% value of the assets shall be considered depreciable;

Provided further that in case of hydro generating stations, the salvage value shall be as provided in the agreement, if any, signed by the developers with the State Government for development of the generating station:

Provided also that the capital cost of the assets of the hydro generating station for the purpose of computation of depreciated value shall correspond to the percentage of sale of electricity under long-term power purchase agreement at regulated tariff:

Provided also that any depreciation disallowed on account of lower availability of the generating station or unit or transmission system as the case may be, shall not be allowed to be recovered at a later stage during the useful life or the extended life.

(4) *Land other than the land held under lease and the land for reservoir in case of hydro generating station shall not be a depreciable asset and its cost shall be excluded from the capital cost while computing depreciable value of the asset.*

(5) *Depreciation shall be calculated annually based on Straight Line Method and at rates specified in **Appendix-I** to these regulations for the assets of the generating station and transmission system:*

Provided that the remaining depreciable value as on 31st March of the year closing after a period of 12 years from the effective date of commercial operation of the station shall be spread over the balance useful life of the assets.

(6) *In case of the existing projects, the balance depreciable value as on 1.4.2019 shall be worked out by deducting the cumulative depreciation as admitted by the Commission up to 31.3.2019 from the gross depreciable value of the assets.*

(7) *The generating company or the transmission licensee, as the case may be, shall submit the details of proposed capital expenditure five years before the completion of useful life of the project along with justification and proposed life extension. The Commission based on prudence check of such submissions shall approve the depreciation on capital expenditure.*

(8) *In case of de-capitalization of assets in respect of generating station or unit thereof or transmission system or element thereof, the cumulative depreciation shall be adjusted by taking into account the depreciation recovered in tariff by the de-capitalized asset during its useful services.*

(9) *Where the emission control system is implemented within the original scope of the generating station and the date of commercial operation of the generating station or unit thereof and the date of operation of the emission control system are the same, depreciation of the generating station or unit thereof including the emission control system shall be computed in accordance with Clauses (1) to (8) of this Regulation.*



(10) Depreciation of the emission control system of an existing or a new generating station or unit thereof where the date of operation of the emission control system is subsequent to the date of commercial operation of the generating station or unit thereof, shall be computed annually from the date of operation of such emission control system based on straight line method, with salvage value of 10%, over a period of-

- a) twenty five years, in case the generating station or unit thereof is in operation for fifteen years or less as on the date of operation of the emission control system; or
- b) balance useful life of the generating station or unit thereof plus fifteen years, in case the generating station or unit thereof is in operation for more than fifteen years as on the date of operation of the emission control system; or
- c) ten years or a period mutually agreed by the generating company and the beneficiaries, whichever is higher, in case the generating station or unit thereof has completed its useful life."

47. The transmission asset was put into commercial operation in 2021-22. Accordingly, it will complete 12 years beyond 2023-24 and thus, depreciation has been calculated annually based on the Straight Line Method and at rates specified in the 2019 Tariff Regulations. Depreciation has been allowed considering the capital expenditure as on COD and approved ACE during the 2019-24 tariff period. The Gross Block during the 2019-24 tariff period has been depreciated at the weighted average rate of depreciation (WAROD). WAROD at Annexure has been worked out considering the depreciation rates of the transmission asset as prescribed in the 2019 Tariff Regulations. Depreciation allowed for the transmission assets for the 2019-24 tariff period is as follows:

Sl. No.	Particular	(₹ in lakh)		
		2021-22 (pro-rata for 02 days)	2022-23	2023-24
A	Opening Gross Block	4344.89	4344.89	4913.09
B	ACE	0.00	568.21	0.00
C	Closing Gross Block (A+B)	4344.89	4913.09	4913.09
D	Average Gross Block (A+C)/2	4344.89	4628.99	4913.09
E	Average Gross Block (90% depreciable assets)	4344.89	4628.99	4913.09
F	Average Gross Block (100% depreciable)	0.00	0.00	0.00



Sl. No.	Particular	2021-22 (pro-rata for 02 days)	2022-23	2023-24
	assets)			
G	Depreciable value (excluding IT equipment and software) (E*90%)	3910.40	4166.09	4421.79
H	Depreciable value of IT equipment and software (F*100%)	0.00	0.00	0.00
I	Total Depreciable Value (G+H)	3910.40	4166.09	4421.79
J	Weighted Average Rate of Depreciation (WAROD) (in %)	5.28	5.28	5.28
K	Lapsed useful life at the beginning of the year (Year)	0	0	1
L	Balance useful life at the beginning of the year (Year)	25	24	23
M	Depreciation during the year (D*J)	1.26	244.41	259.41
N	Cumulative Depreciation at the end of the year	1.26	245.67	505.08
O	Remaining Aggregate Depreciable Value at the end of the year(I-N)	3909.14	3920.42	3916.71

Interest on Loan (IoL)

48. Regulation 32 of the 2019 Tariff Regulations provides as follows:

"32. Interest on loan capital: (1) The loans arrived at in the manner indicated in Regulation 18 of these regulations shall be considered as gross normative loan for calculation of interest on loan.

(2) The normative loan outstanding as on 1.4.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2019 from the gross normative loan.

(3) The repayment for each of the year of the tariff period 2019-24 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of de-capitalization of assets, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered upto the date of de-capitalisation of such asset.

(4) Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be, the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.

(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized:

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered;



Provided further that if the generating station or the transmission system, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.

(5a) The rate of interest on loan for installation of emission control system shall be the weighted average rate of interest of actual loan portfolio of the emission control system or in the absence of actual loan portfolio, the weighted average rate of interest of the generating company as a whole shall be considered.

(6) The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

(7) The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing."

49. We have already approved 9.20% rate of interest for computation of IDC and IoL. Accordingly, IoL is allowed at the rate of 9.20% interest for the 2019-24 tariff period for the transmission asset.

50. The interest on the loan has been worked out for the transmission asset as follows:

- (i) Gross amount of loan, repayment of instalments and rate of interest on actual loans have been considered as per petition.
- (ii) The yearly repayment for the tariff period 2019-24 has been considered to be equal to the depreciation allowed for that year.
- (iii) The weighted average rate of interest on the actual average loan worked out as per (i) above is applied on the notional average loan during the year to arrive at the interest on the loan.

51. The IoL allowed in respect of the transmission asset for the 2019-24 tariff period are as follows:



(₹ in lakh)				
Sl. No.	Particular	2021-22 (pro-rata for 02 days)	2022-23	2023-24
A	Gross Normative Loan	3041.42	3041.42	3439.17
B	Cumulative Repayments up to Previous Year	0.00	1.26	245.67
C	Net Loan-Opening (A-B)	3041.42	3040.16	3193.50
D	Addition due to ACE	0.00	397.74	0.00
E	Repayment during the year	1.26	244.41	259.41
F	Net Loan-Closing (C+D-E)	3040.16	3193.50	2934.09
G	Average Loan (A+F)/2	3040.79	3116.83	3063.79
H	Weighted Average Rate of Interest on Loan (in %)	9.20%	9.20%	9.20%
I	Interest on Loan (GxH)	1.53	286.75	281.87

Return on Equity (RoE)

52. Regulation 30 and Regulation 31 of the 2019 Tariff Regulations provides as follows:

“30. Return on Equity: (1) Return on equity shall be computed in rupee terms, on the equity base determined in accordance with Regulation 18 of these regulations.

(2) Return on equity shall be computed at the base rate of 15.50% for thermal generating station, transmission system including communication system and run-of-river hydro generating station, and at the base rate of 16.50% for the storage type hydro generating stations including pumped storage hydro generating stations and run-of-river generating station with pondage:

Provided that return on equity in respect of additional capitalization after cutoff date beyond the original scope, excluding additional capitalization on 7 account of emission control system, shall be computed at the weighted average rate of interest on actual loan portfolio of the generating station or the transmission system or in the absence of actual loan portfolio of the generating station or the transmission system, the weighted average rate of interest of the generating company or the transmission licensee, as the case may be, as a whole shall be considered, subject to ceiling of 14%.

Provided further that:

- In case of a new project, the rate of return on equity shall be reduced by 1.00% for such period as may be decided by the Commission, if the generating station or transmission system is found to be declared under commercial operation without commissioning of any of the Restricted Governor Mode Operation (RGMO) or Free Governor Mode Operation (FGMO), data telemetry, communication system up to load dispatch centre or protection system based on the report submitted by the respective RLDC;*
- in case of existing generating station, as and when any of the requirements under (i) above of this Regulation are found lacking*



based on the report submitted by the concerned RLDC, rate of return on equity shall be reduced by 1.00% for the period for which the deficiency continues;

- iii. in case of a thermal generating station, with effect from 1.4.2020:
 - a) rate of return on equity shall be reduced by 0.25% in case of failure to achieve the ramp rate of 1% per minute;
 - b) an additional rate of return on equity of 0.25% shall be allowed for every incremental ramp rate of 1% per minute achieved over and above the ramp rate of 1% per minute, subject to ceiling of additional rate of return on equity of 1.00%:

Provided that the detailed guidelines in this regard shall be issued by National Load Dispatch Centre by 30.6.2019."

(3) The return on equity in respect of additional capitalization on account of emission control system shall be computed at the base rate of one-year marginal cost of lending rate (MCLR) of the State Bank of India as on 1st April of the year in which the date of operation (ODE) occurs plus 350 basis point, subject to ceiling of 14%;"

"31. Tax on Return on Equity. (1) The base rate of return on equity as allowed by the Commission under Regulation 30 of these regulations shall be grossed up with the effective tax rate of the respective financial year. For this purpose, the effective tax rate shall be considered on the basis of actual tax paid in respect of the financial year in line with the provisions of the relevant Finance Acts by the concerned generating company or the transmission licensee, as the case may be. The actual tax paid on income from other businesses including deferred tax liability (i.e., income from business other than business of generation or transmission, as the case may be) shall be excluded for the calculation of effective tax rate.

(2) Rate of return on equity shall be rounded off to three decimal places and shall be computed as per the formula given below:

$$\text{Rate of pre-tax return on equity} = \text{Base rate} / (1-t)$$

Where "t" is the effective tax rate in accordance with clause (1) of this Regulation and shall be calculated at the beginning of every financial year based on the estimated profit and tax to be paid estimated in line with the provisions of the relevant Finance Act applicable for that financial year to the company on pro-rata basis by excluding the income of non-generation or non-transmission business, as the case may be, and the corresponding tax thereon. In case of generating company or transmission licensee paying Minimum Alternate Tax (MAT), "t" shall be considered as MAT rate including surcharge and cess.

Illustration-

(i) In case of a generating company or a transmission licensee paying Minimum Alternate Tax (MAT) @ 21.55% including surcharge and cess:

$$\text{Rate of return on equity} = 15.50 / (1 - 0.2155) = 19.758\%$$

(ii) In case of a generating company or a transmission licensee paying normal corporate tax including surcharge and cess:



- (a) Estimated Gross Income from generation or transmission business for FY 2019-20 is ₹ 1,000 crore;
 (b) Estimated Advance Tax for the year on above is ₹ 240 crore;
 (c) Effective Tax Rate for the year 2019-20 = ₹ 240 Crore/₹ 1000 Crore = 24%;
 (d) Rate of return on equity = $15.50 / (1 - 0.24) = 20.395\%$.

(3) The generating company or the transmission licensee, as the case may be, shall true up the grossed up rate of return on equity at the end of every financial year based on actual tax paid together with any additional tax demand including interest thereon, duly adjusted for any refund of tax including interest received from the income tax authorities pertaining to the tariff period 2019-24 on actual gross income of any financial year. However, penalty, if any, arising on account of delay in deposit or short deposit of tax amount shall not be claimed by the generating company or the transmission licensee, as the case may be. Any under-recovery or over-recovery of grossed up rate on return on equity after truing up, shall be recovered or refunded to beneficiaries or the long term customers, as the case may be, on year to year basis."

53. The Petitioner has submitted that it is liable to pay income tax at the MAT rate prescribed under the Taxation Laws (Amendment) Ordinance, 2019.

54. We have considered the Petitioner's submissions. The MAT rate applicable in 2019-20 has been considered for the purpose of RoE, which shall be trued up with actual tax rate in accordance with Regulation 31(3) of the 2019 Tariff Regulations.

55. RoE allowed for the transmission asset under Regulation 30 of the 2019 Tariff Regulations is as follows:

Sl. No.	Particular	(₹ in lakh)		
		2021-22 (pro-rata for 02 days)	2022-23	2023-24
A	Opening Equity	1303.47	1303.47	1473.93
B	Additions	0.00	170.46	0.00
C	Closing Equity (A-B)	1303.47	1473.93	1473.93
D	Average Equity (A+B)/2	1303.47	1388.70	1473.93
E	Return on Equity (Base Rate) (in %)	15.50%	15.50%	15.50%
F	MAT Rate for respective year (in %)	17.472%	17.472%	17.472%
G	Rate of Return on Equity (in %)	18.782%	18.782%	18.782%
H	Return on Equity (DxG)	1.34	260.83	276.83



Interest on Working Capital (IWC)

56. Regulation 34(1)(c), Regulation 34(3), Regulation 34(4) and Regulation 3(7) of the 2019 Tariff Regulations specify as follows:

“34. Interest on Working Capital: (1) *The working capital shall cover:*

(c) For Hydro Generating Station (including Pumped Storage Hydro Generating Station) and Transmission System:

- (i) *Receivables equivalent to 45 days of annual fixed cost;*
- (ii) *Maintenance spares @ 15% of operation and maintenance expenses including security expenses; and*
- (iii) *Operation and maintenance expenses, including security expenses for one month.*

(3) Rate of interest on working capital shall be on normative basis and shall be considered as the bank rate as on 1.4.2019 or as on 1st April of the year during the tariff period 2019-24 in which the generating station or a unit thereof or the transmission system including communication system or element thereof, as the case may be, is declared under commercial operation, whichever is later:

Provided that in case of truing-up, the rate of interest on working capital shall be considered at bank rate as on 1st April of each of the financial year during the tariff period 2019-24.

(4) Interest on working capital shall be payable on normative basis notwithstanding that the generating company or the transmission licensee has not taken loan for working capital from any outside agency.”

“3. Definitions. - *In these regulations, unless the context otherwise requires:-*

(7) ‘Bank Rate’ means the one year marginal cost of lending rate (MCLR) of the State Bank of India issued from time to time plus 350 basis points;”

57. The rate of IWC considered is 10.50% (SBI 1 year MCLR applicable as on 1.4.2021 of 7.00% plus 350 basis points) for 2021-22 to 2022-23 and 12.00% (SBI 1 year MCLR applicable as on 1.4.2023 of 8.5% plus 350 basis points) for 2023-24. The components of the working capital and interest allowed thereon for the transmission asset are as follows:



Particular	(₹ in lakh)		
	2021-22 (pro-rata for 02 days)	2022-23	2023-24
Working Capital for O&M Expenses (O&M Expenses for one month)	0.00	0.00	0.00
Working Capital for Maintenance Spares (15% of O&M Expenses)	0.00	0.00	0.00
Working Capital for Receivables (Equivalent to 45 days of annual fixed cost/ annual transmission charges)	94.18	98.92	102.09
Total Working Capital	94.18	98.92	102.09
Rate of Interest for working capital (in %)	10.50%	10.50%	12.00%
Interest of working capital	0.05	10.39	12.25

Annual Fixed Charges for the 2019-24 Tariff Period

58. The transmission charges allowed for the transmission asset for the 2019-24 tariff period are as follows:

Particular	(₹ in lakh)		
	2021-22 (pro-rata for 02 days)	2022-23	2023-24
Depreciation	1.26	244.41	259.41
Interest on Loan	1.53	286.75	281.87
Return on Equity	1.34	260.83	276.83
Interest on Working Capital	0.05	10.39	12.25
O & M Expenses	0.00	0.00	0.00
Total	4.19	802.37	830.36

Filing Fee and the Publication Expenses

59. The Petitioner has sought reimbursement of the filing fee paid by it and publication expenses. The Petitioner shall be entitled to reimbursement of the filing fees and publication expenses in connection with the present petition directly from the beneficiaries on a pro-rata basis in accordance with Regulation 70(1) of the 2019 Tariff Regulations.



Licence Fee & RLDC Fees and Charges

60. The Petitioner has sought reimbursement of the licensee fee in accordance with Regulation 70(4) of the 2019 Tariff Regulations for the 2019-24 tariff period. The Petitioner shall be entitled to reimbursement of the licence fee in accordance with Regulation 70(4) of the 2019 Tariff Regulations for the 2019-24 tariff period. The Petitioner shall also be entitled to recovery of the RLDC fee and charges in accordance with Regulations 70(3) of the 2019 Tariff Regulations for the 2019-24 tariff period.

61. The Petitioner has prayed to allow it to consider the transmission asset along with the transmission line for the purpose of calculating the "availability". We have considered the Petitioner's prayer. The Commission, in an order dated 3.11.2017 in Petition No. 146/TT/2016 has already specified the methodology for the calculation of incentives in respect of HVAC and HVDC. The same methodology will be adopted in the instant case as well. The relevant portion of the order dated 3.11.2017 in Petition No.146/TT/2016 is extracted hereunder:

62. We have considered the submissions of the Petitioner.

"131. The Commission vide order dated 3.11.2017 In Petition No. 146/TT/2016 has held as under w.r.t. incentive and sharing of transmission charges of the transmission assets:

"Sharing of Transmission Charges

95. The transmission charges determined through this order shall be recovered through POC mechanism in accordance with the Sharing Regulations with effect from 1.10.2013. However, for calculating the incentive and target availability during 2009-14 tariff period, the relevant provision of the 2009 Tariff Regulations in respect of HVAC and HVDC shall be kept in view. Since the tariff of Asset-I has been worked out on consolidated basis the calculation of incentive in respect of HVAC and HVDC shall be in proportion to the capital cost of HVAC and HVDC as allowed in this order."

132. The Petitioner in the instant true up petition has again not submitted separate capital cost of HVAC and HVDC portion of Asset-I. Therefore, the proportion considered



by CTU may be adopted for the calculation of incentive in respect of HVAC and HVDC in proportion to the capital cost of HVAC and HVDC availability."

Sharing of Transmission Charges

63. The billing, collection and disbursement of the transmission charges granted for the transmission asset in this order shall be recovered in terms of the provisions of the 2020 Sharing Regulations as provided in Regulation 57 of the 2019 Tariff Regulations.

64. To summarise, the AFC approved for the transmission asset for the 2019-24 tariff period is as follows:

(₹ in lakh)		
2021-22 (pro-rata for 02 days)	2022-23	2023-24
4.19	802.37	830.36

65. The Annexure to this order form part of the order.

66. This order disposes of Petition No. 13/TT/2023 in terms of the above findings and discussions.

sd/-
(P. K. Singh)
Member

sd/-
(Arun Goyal)
Member

sd/-
(Jishnu Barua)
Chairperson



Order in Petition No. 13/TT/2023



CERC Website S. No. 174/2024

Annexure

(₹ in lakh)

2019-24 Capital Expenditure as on COD	Admitted Capital Cost as on COD	ACE			Admitted Capital Cost as on 31.3.2024 (₹ in lakh)	Rate of Depreciation on (in %)	Annual Depreciation as per Regulations		
		2021-22	2022-23	2023-24			2021-22	2022-23	2023-24
Sub-Station	4344.89	0.00	568.21	0.00	4913.09	5.28	229.41	244.41	259.41
PLCC	0.00	0.00	0.00	0.00	0.00	6.33	0.00	0.00	0.00
IT Equipment and software	0.00	0.00	0.00	0.00	0.00	15.00	0.00	0.00	0.00
Total	4344.89	0.00	568.21	0.00	4913.09		229.41	244.41	259.41
		Avg. Gross Block					4466.62	4628.99	4913.09
		WAROD (in %)					5.28	5.28	5.28



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REF: HS/ATIL/2022-23/1

The Board of Directors
Adani Transmission (India) Limited
Adani Corporate House,
Shantigram, Near Vaishno Devi Circle,
S. G. Highway, Khodiyar
Ahmedabad- 382421

**INDEPENDENT AUDITOR'S REPORT ON STATEMENT OF CAPITAL COST AS ON
COMMERCIAL OPERATION DATE ("COD") FOR '12 OHM SERIES LINE REACTOR
IN 400 KV D/C MOHINDERGARH-DHANONDA 400 KV LINE (CIRCUIT-I &
CIRCUIT-II) AT MOHINDERGARH END'**

1. This certificate is issued in accordance with the terms of our engagement letter dated October 06, 2022.
2. We, Deloitte Haskins & Sells LLP, Chartered Accountants (Firm's Registration Number 117366W/W-100018), the Statutory Auditors of **Adani Transmission (India) Limited** ("the Company") have been requested by the Company vide its mail dated 15th April, 2023 to confirm the information mentioned in the attached Annexure on capital cost as on Commercial operation date ("COD") for '12 ohm Series Line Reactor in 400 kV D/C Mohindergarh-Dhanonda 400 kV line (Circuit-I & Circuit-II) at Mohindergarh end' ("the Annexure") for onward submission to Central Electricity Regulatory Commission ("CERC").

Management's Responsibility

3. The preparation of the Annexure is the responsibility of the Management of the Company including the preparation and maintenance of all accounting and other relevant supporting records and documents. This responsibility includes the design, implementation, and maintenance of internal control relevant to the preparation and presentation of the Annexure and applying an appropriate basis of preparation; and making estimates that are reasonable in the circumstances.

Auditor's responsibility

4. Our responsibility, for the purpose of this certificate, is to provide a reasonable assurance as to whether the information contained in the attached Annexure to the extent that it relates to total capital expenditure has been correctly extracted by the management from the audited books of account of the Company for the year ended March 31, 2022 and March 31, 2023 and other relevant agreements, records and documents maintained by the Company.



Deloitte Haskins & Sells LLP

5. We carried out our examination in accordance with the Guidance Note on Reports or Certificates for Special Purposes (Revised 2016), issued by the Institute of Chartered Accountants of India (ICAI), in so far as applicable for the purpose of this certificate. This Guidance Note requires that we comply with the ethical requirements of the Code of Ethics issued by (ICAI).
6. We have complied with the relevant applicable requirements of the Standard on Quality Control (SQC) 1, Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Service Engagements.

Criteria and Scope

7. The information contained in Annexure is extracted from the audited standalone financial statements of the Company for the financial year ended March 31, 2022, and March 31, 2023 and other relevant agreements, records and documents as produced by the Management of the Company.

Opinion

8. Based on our examination as stated above, and according to the information and explanations provided to us by the management of the Company, in our opinion the particulars furnished by the Company in the Annexure, signed by us, has been appropriately extracted by the management from the audited books of account of the Company for the year ended March 31, 2022 and March 31, 2023 and other relevant agreements, records and documents maintained by the Company.

Restriction on use

9. This certificate is issued at the request of the Company for onward submission by the Company to CERC. This Certificate should not be used for any other purpose without our prior written consent. Accordingly, we do not accept or assume any liability or any duty of care for any other purpose or to any other person to whom this certificate is shown or into whose hands it may come without our prior consent in writing.

For Deloitte Haskins & Sells LLP

Chartered Accountants

(Firm Registration No.117366W/W-100018)



H. S. Sutaria

Hardik Sutaria

Partner

(Membership No. 116642)

(UDIN:231166428G W9BT9895)

Ahmedabad, May 29, 2023



**Deloitte
Haskins & Sells LLP**

Chartered Accountants
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To,
The Board of Directors,
Adani Transmission (India) Limited
Adani Corporate House ,
Shantigram, Near Vaishnav Devi Circle
S.G. Highway, Khodiyar,
Ahmedabad -382421
Gujarat

REF: HS/ATIL/2020-21/02

INDEPENDENT AUDITOR'S CERTIFICATE CERTIFYING BALANCE SHEET ("ANNEXURE 1"), PROFIT AND LOSS ("ANNEXURE 2") AND CASH FLOW STATEMENT ("ANNEXURE 3") OF 500 KV HVDC MUNDRA TO MOHINDERGARH & 400 KV MUNDRA-SAMI-DEHGAM TRANSMISSION LINES (CERC LINES) AS AT AND FOR THE YEAR ENDED MARCH 31, 2020

1. This certificate is issued in accordance with the terms of our engagement letter dated August 10, 2020.
2. We, Deloitte Haskins & Sells LLP, Chartered Accountants (Firm Registration Number 117366W/W-100018), the Statutory Auditors of Adani Transmission (India) Limited ("the Company"), having its registered office at "Adani Corporate House", Shantigram, Near Vaishnav Devi Circle, S.G. Highway, Khodiyar, Ahmedabad 382421, Gujarat, India, have examined the audited books of account and other relevant records and documents of the Company for the year ended March 31, 2020, in the normal course of its business for the purpose of providing reasonable assurance on the particulars mentioned in Annexure 1, Annexure 2 and Annexure 3 including the related schedules and other explanatory information ("the Statements") of the CERC Lines forming part of the Company. The statements are attached to this certificate for identification purpose.
3. We have been requested by the management of the Company to provide a certificate on the Statements attached for submission to Central Electricity Regulatory Commission (CERC), which has been prepared by the Company based on the audited books of account and other relevant records and documents of the Company as at and for the year ended March 31, 2020.

Management's Responsibility

4. The management of the Company is responsible for preparation of the attached Statements from the audited books of account and other relevant record as at and for the year ended March 31, 2020 for ensuring compliance with the Central Electricity Regulatory Commission Regulations and other applicable laws. This responsibility includes collecting, collating and validating data and presentation thereof in the said Statements and the design, implementation and maintenance of internal control suitable for ensuring compliance with the above. Management is also responsible for determining the basis of allocation of certain account balances to the CERC Lines.



Indiabulls Finance Centre, Tower 3, 27th - 32nd Floor, Senapati Bapat Marg, Elphinstone Road (West), Mumbai - 400 013, Maharashtra, India
Registration No AAB-8737)



Auditor's responsibility

5. Our responsibility, for the purpose of this certificate, is limited to certifying that the particulars contained in the Statements have been extracted from the trial balance of 500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines' (CERC Lines) and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2020.
6. The financial statements of the Company as at and for the year ended March 31, 2020, have been audited by us, on which we issued an unmodified audit opinion vide our report dated May 08, 2020. Our audit of the financial statements was conducted in accordance with the Standards on Auditing specified under Section 143(10) of the Companies Act, 2013. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.
7. Nothing contained in this Certificate, nor anything said and done in the course of, or in connection with the services that are subject to this Certificate, will extend any duty of care that we may have in our capacity of the statutory auditors of any financial statements of the Company.
8. We carried out our examination of the audited books of account, records and documents of the Company in accordance with the Guidance Note on Reports or Certificates for Special Purposes (Revised 2016) issued by the Institute of Chartered Accountants of India (ICAI), in so far as applicable for the purposes of this certificate. This Guidance note requires that we comply with the ethical requirements of the Code of Ethics issued by ICAI.
9. We have complied with the relevant applicable requirements of the Standard on Quality Control (SQC) 1, Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Service Engagements.

Opinion

10. On the basis of our examination of the audited books of accounts, other relevant records and documents, the representations received from the management, information and explanation given to us, and subject to other explanatory information to the Statements, we certify that the information contained Annexure 1, Annexure 2 (including related schedule) and Annexure 3 has been appropriately extracted from trial balance of CERC Lines and other relevant records of the Company as at and for the year ended March 31, 2020.

The trial balance of CERC Lines forms part of the audited financial statements of the Company for the year ended and as at March 31, 2020 and the audit procedures have been done on the financial statements of the Company as a whole.



**Deloitte
Haskins & Sells LLP****Restriction on use**

11. This certificate is being issued at the request of the Company to be submitted to Central Electricity Regulatory Commission and should not be used for any other purpose or to be distributed to any other parties. Accordingly, we do not accept or assume any liability or any duty of care or for any other purpose or to any other party to whom it is shown or into whose hands it may come without our prior consent in writing.

For Deloitte Haskins & Sells LLP

Chartered Accountants

(Firm Registration No.117366W/W-100018)

*H. S. Sutaria*

Hardik Sutaria

Partner

(Membership No.116642)

(UDIN: 20116642AAAACG9422)

Ahmedabad, October 29, 2020



Annexure 1

ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Balance Sheet as at 31st March, 2020

adani
Transmission

(₹ in Crores)

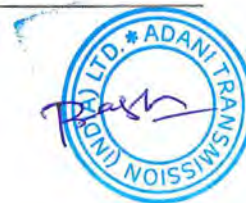
Particulars	Notes	As at 31st March, 2020
ASSETS		
Non-Current Assets		
Property, Plant and Equipment	1	2,929.80
Capital Work-In-Progress		3.41
Right-of-Use Assets	1a	8.19
Intangible Assets	1b	0.70
Financial Assets		
(i) Other Financial Assets	2	0.98
Other Non-current Assets	3	396.81
Total Non-Current Assets		3,339.89
Current Assets		
Inventories	4	20.99
Financial Assets		
(i) Trade Receivables	5	99.20
(ii) Cash and Cash Equivalents	6	0.66
(iii) Bank Balances other than (ii) above	7	2.81
(iv) Other Financial Assets	8	59.41
Other Current Assets	9	1.74
Total Current Assets		184.81
Total Assets		3,524.70
EQUITY AND LIABILITIES		
Equity		
Head Office Account		250.12
Other Equity	10	1,565.43
Total Equity		1,815.55
Liabilities		
Non-Current Liabilities		
Financial Liabilities		
(i) Borrowings	11	1,226.73
Provisions	12	14.24
Deferred Tax Liabilities (Net)	13	396.81
Total Non-Current Liabilities		1,637.78
Current Liabilities		
Financial Liabilities		
(i) Trade Payables		
- Total outstanding dues of micro enterprises and small enterprises	15	0.30
- Total outstanding dues of creditors other than micro enterprises and small enterprises		8.39
(ii) Other Financial Liabilities	16	46.13
Other Current Liabilities	17	8.26
Provisions	12	0.22
Income Tax Liabilities (Net)	18	8.07
Total Current Liabilities		71.37
Total Liabilities		1,709.15
Total Equity and Liabilities		3,524.70

See accompanying notes forming part the annexures

ADANI TRANSMISSION (INDIA) LIMITED

VIVEK SINGLA
Whole-time Director
DIN : 03548350

Place : Ahmedabad
Date : 21st October 2020



Annexure 2

ADANI TRANSMISSION (INDIA) LIMITED

500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines

Statement of Profit and Loss for the year ended 31st March, 2020

adani
Transmission

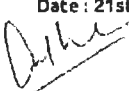
(Rs in Crores)

Particulars	Notes	For the year ended 31st March, 2020
Income		
Revenue from Operations	19	773.89
Other Income	20	1.45
Total Income		775.34
Expenses		
Operating Expenses	21	30.52
Employee Benefits Expense	22	8.81
Finance Costs	23	204.27
Depreciation and Amortisation Expense	1,1a & 1b	220.06
Other Expenses	24	45.81
Total Expenses		509.47
Profit Before Tax and Deferred Asset recoverable / adjustable for the year		265.87
Tax Expense:	25	
Current Tax		46.99
Deferred Tax		14.48
Total Tax Expenses		61.47
Profit After Tax but before Deferred Asset recoverable / adjustable for the year		204.40
Deferred Asset recoverable / adjustable		14.48
Profit After Tax for the year		218.88
Other Comprehensive Income/(Loss)		
Items that will not be reclassified to Profit or Loss		
- Remeasurement of the Defined Benefit Plans		(0.09)
Tax relating to items that will not be reclassified to Profit or Loss		
Other Comprehensive Income/(Loss) for the year (Net of Tax)		(0.09)
Total Comprehensive Income for the year		218.79

See accompanying notes forming part the annexures

ADANI TRANSMISSION (INDIA) LIMITED


 VIVEK SINGLA
 Whole-time Director
 DIN : 03548350

 Place : Ahmedabad
 Date : 21st October 2020



Annexure 3
ADANI TRANSMISSION (INDIA) LIMITED
 500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
 Statement of Cash flows for the year ended 31st March, 2020

adani
 Transmission

		(₹ in Crores)
Particulars		For the year ended 31st March, 2020
A.	Cash flows from operating activities	
	Profit before tax	265.87
	Adjustments for:	
	Depreciation and Amortisation Expense	220.06
	Gain on sale/Fair Value of current investment measured at FVTPL	(1.22)
	Finance Costs	204.27
	Unclaimed Liabilities / Excess provision written back	(0.06)
	Expected Credit Loss on Trade Receivables and Capital Advances	1.39
	Write down in Inventory Value	2.86
	Provision for Stamp Duty Expense	19.80
	Loss on Sale of Fixed Asset	0.01
	Interest income	(0.07)
	Operating profit before working capital changes	712.91
	Movement in Working Capital:	
	(Increase) / Decrease in Assets:	
	Loans, other financial assets and other assets	24.90
	Inventories	(1.54)
	Trade Receivables	7.91
	Increase / (Decrease) in Liabilities:	
	Other financial liabilities, other liabilities and provisions	2.06
	Trade Payables	5.59
	Cash generated from operations	751.83
	Taxes paid (net of Refunds)	(38.95)
	Net cash generated from operating activities (A)	712.88
B.	Cash flows from investing activities	
	Payment of capital expenditure on Property, Plant and Equipment, Intangible assets including capital advances and Capital Work in Progress	(3.99)
	Interest received	0.13
	Sale/(Purchase) of current investment (Net)	4.77
	Proceeds from / (Deposits in) Bank deposits (Net) (including Margin money deposits)	0.40
	Net cash from/(used in) investing activities (B)	1.31
C.	Cash flows from financing activities	
	Proceeds of Long-term borrowings	1,240.16
	Repayment of Long-term borrowings	(1,736.64)
	Increase/Decrease in HO Account balance	14.48
	Proceeds from Short-term borrowings	2.02
	Repayment of Short-term borrowings	(2.01)
	Finance Costs paid	(232.48)
	Net cash used in financing activities (C)	(714.47)
	Net Decrease in cash and cash equivalents (A+B+C)	(0.28)
	Cash and cash equivalents at the beginning of the year	0.94
	Cash and cash equivalents at the end of the year (Refer note 6)	0.66
	Cash and Cash Equivalents Includes	As at 31st March, 2020
	Balances with Banks	
	-In Current Accounts	0.66
	Total Cash and Cash Equivalents at the end of the year	0.66

ADANI TRANSMISSION (INDIA) LIMITED

VIVEK SINGLA
 Whole-time Director
 DIN : 03548350

Place : Ahmedabad
 Date : 21st October 2020



1. Property, Plant and Equipment

Description of Assets	Tangible Assets							Total
	Land (Free hold)	Building	Plant & Equipment	Furniture and Fixtures	Office Equipment	Computer Equipment	Vehicles	
I. Gross carrying value								
Balance as at 1st April, 2019	53.70	79.65	3,883.34	0.88	0.94	0.75	0.15	4,019.41
Additions during the Year	3.46	-	1.45	0.02	0.11	0.43	0.04	5.51
Disposals during the Year	-	-	-	-	-	-	(0.05)	(0.05)
Balance as at 31st March, 2020	57.16	79.65	3,884.79	0.90	1.05	1.18	0.14	4,024.87
II. Accumulated Depreciation								
Balance as at 1st April, 2019	-	11.01	864.03	0.24	0.17	0.22	0.04	875.71
Depreciation for the year	-	2.74	216.39	0.06	0.07	0.12	0.01	219.39
Eliminated on disposal of assets	-	-	-	-	-	-	(0.03)	(0.03)
Balance as at 31st March, 2020	-	13.75	1,080.42	0.30	0.24	0.34	0.02	1,095.07
Tangible Assets								
Description of Assets	Tangible Assets							Total
	Land (Free hold)	Building	Plant & Equipment	Furniture and Fixtures	Office Equipment	Computer Equipment	Vehicles	
Net Carrying Value :								
Balance as at 31st March, 2020	57.16	65.90	2,804.37	0.60	0.81	0.84	0.12	2,929.80



ADANI TRANSMISSION (INDIA) LIMITED

500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines

Notes to Annexures

1a : Right-of-Use Assets

(Rs in Crores)

Particulars	Right-of-Use Assets	
	Leasehold Land	Total
Gross carrying value		
Balance as at 1st April, 2019		
On Transition of IND AS 116	11.77	11.77
Additions during the year	-	-
Disposals during the year	-	-
Balance as at 31st March, 2020	11.77	11.77
Accumulated Amortisation		
Balance as at 1st April, 2019		
On Transition of IND AS 116	2.99	2.99
Amortisation Charge during the year	0.59	0.59
Eliminated on disposal of asset during the year	-	-
Balance as at 31st March, 2020	3.58	3.58
Net Carrying Value		
Balance as at 31st March, 2020	8.19	8.19

1b : Intangible Assets

(Rs in Crores)

Particulars	Intangible Assets	
	Computer Software	Total
Gross carrying value		
Balance as at 31st March, 2019	0.31	0.31
Additions during the year	0.62	0.62
Disposals during the year	-	-
Balance as at 31st March, 2020	0.93	0.31
Accumulated Amortisation		
Balance as at 31st March, 2019	0.15	0.15
Amortisation Charge during the year	0.08	0.08
Eliminated on disposal of asset during the year	-	-
Balance as at 31st March, 2020	0.23	0.23
Net Carrying Value		
Balance as at 31st March, 2020	0.70	0.70



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

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Transmission

2 Other Financial Assets - At Amortised Cost (Unsecured, considered good)	As at 31st March, 2020 (Rs in Crores)
Security deposits	0.97
	0.97
3 Other Non-current Assets (Unsecured)	As at 31st March, 2020 (Rs in Crores)
Capital Advances	
- Considered Good	
- Considered Doubtful	1.39
	1.39
Less : Expected Credit Loss on Capital Advances	(1.39)
Deferred Asset Recoverable/adjustable	396.81
	396.81
4 Inventories (Valued at lower of Cost and Net Realisable Value)	As at 31st March, 2020 (Rs in Crores)
Stores & spares	21.00
	21.00
5 Trade Receivables (Unsecured, otherwise stated)	As at 31st March, 2020 (Rs in Crores)
Unsecured, Considered Good	99.20
Credit Impaired	-
	99.20
Less: Expected Credit Loss	-
	99.20
6 Cash and Cash Equivalents	As at 31st March, 2020 (Rs in Crores)
Balances with banks	
In current accounts	0.66
	0.66
7 Bank Balance other than Cash and Cash Equivalents	As at 31st March, 2020 (Rs in Crores)
Balances held as Margin Money	2.81
	2.81
8 Other Financial Assets - At Amortised Cost (Unsecured, considered good)	As at 31st March, 2020 (Rs in Crores)
Unbilled Revenue	59.40
Security deposits	0.12
	59.42



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures



	As at 31st March, 2020 (Rs in Crores)
9 Other Current Assets (Unsecured, considered good)	
Advance to Suppliers	1.30
Balances with Government Authorities	0.00
Prepaid Expenses	0.44
Advances to Employees	0.01
	<u>1.75</u>

(Transactions below ₹ 50,000.00 denoted as ₹ 0.00 Crs)

	As at 31st March, 2020 (Rs in Crores)
10 Other Equity	
Retained Earnings	
Opening Balance	1,346.64
Add : Profit for the year	218.88
Add/(Less): Other Comprehensive Income arising from remeasurement of Defined Benefit Plans	(0.09)
Closing Balance	<u>1,565.43</u>

	Non-Current As at 31st March, 2020 (Rs in Crores)
11 Borrowings	
Unsecured	
From Related Party	1,226.73
Total	<u>1,226.73</u>

	As at 31st March, 2020	
	Non-Current (Rs in Crores)	Current (Rs in Crores)
12 Provisions		
Net Employee Defined benefit liabilities		
Provision for Gratuity	0.88	0.04
Provision for Compensated Absences	0.51	0.18
	<u>1.39</u>	<u>0.22</u>
Provision for Stamp Duty	12.85	-
Total	<u>14.24</u>	<u>0.22</u>



13 Deferred Tax Liabilities	As at 31st March, 2020 (Rs in Crores)
Deferred Tax Liabilities (Net)	396.81
Deferred Tax Liabilities	396.81
CERC / MERC tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return on equity based on effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset recoverable / adjustable". The same will be recovered when the related deferred tax liability forms a part of current tax.	
15 Trade Payables	As at 31st March, 2020 (Rs in Crores)
Trade Payable	
-Total outstanding dues of creditor micro enterprise and small enterprise	0.30
-Total outstanding dues of creditor other than micro enterprise and small enterprise	8.39
	8.69
16 Other Financial Liabilities	As at 31st March, 2020 (Rs in Crores)
Interest accrued but not due on borrowings	45.67
Payable on purchase of property, plant and equipment	0.46
Other Payables	0.00
	46.13
17 Other Current Liabilities	As at 31st March, 2020 (Rs in Crores)
Statutory liabilities	0.16
Advance from Customers	8.09
	8.25
18 Income Tax Liabilities (Net)	As at 31st March, 2020 (Rs in Crores)
Current Tax:	
Current Tax Liabilities	8.07
	8.07

(Transactions below ₹ 50,000.00 denoted as ₹ 0.00 Crs)



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines



Notes to Annexures

	For the year ended 31st March, 2020 (Rs in Crores)
19 Revenue from Operations	
Income from Transmission Line	773.72
Sale of Services	0.17
	773.89
20 Other Income	
Gain on sale/Fair Vale of current investment measured at FVTPL	1.22
Interest Income	
- Bank	0.07
- Other	0.01
Sale of Stores & Spares	0.09
Unclaimed Liabilities / Excess provision written back	0.06
	1.45
21 Operating expenses	
Repairs and Maintenance	
- Plant & Equipment	25.53
- Others	0.06
Consumption of Stores and spares	4.93
	30.52
22 Employee Benefits Expense	
Salaries, Wages and Bonus	8.13
Contribution to Provident and Other Funds	0.59
Staff Welfare Expenses	0.09
	8.81



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines



Notes to Annexures

		For the year ended 31st March, 2020 (Rs in Crores)
23	Finance costs	
	Interest Expense	
	Interest Expenses	204.26
	Bank Charges & Other Borrowing Costs	0.00
		204.27
24	Other Expenses	For the year ended 31st March, 2020 (Rs In Crores)
	Short Term Lease Rental	0.15
	Rates and Taxes	0.01
	Legal & Professional Expenses	1.78
	Provision for Stamp Duty Expense	19.80
	Directors' Sitting Fees	0.00
	Payment to Auditors	0.10
	Communication Expenses	0.10
	Travelling & Conveyance Expenses	1.31
	Expected Credit Loss on Trade Receivables and Capital Advances	1.39
	Write down in Inventory value	2.86
	Loss on sale of fixed Assets	0.01
	Corporate Social Responsibility expenses	11.62
	Electricity Expenses	4.41
	Miscellaneous Expenses	2.26
		45.81
(Transactions below ₹ 50,000.00 denoted as ₹ 0.00 Crs)		
25	Income Tax	For the year ended 31st March, 2020 (Rs in Crores)
	Tax Expenses	
	Current Income Tax Charge (MAT)	46.99
		46.99



ADANI TRANSMISSION (INDIA) LIMITED

Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra – Sami – Dehgam Transmission Lines

Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

Notes to Annexure-1

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami- Dehgam Transmission Lines of Central Electrical Regulatory Commission Licensed Area (including telecom business)– Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2020.

The above Transmission lines' trial balance's forms part of the audited financial statements of the Company for the year ended and as at 31st March, 2020 which have been prepared in accordance with Indian Accounting Standards (IND AS) as notified under the Companies (Indian Accounting Standards) Rules, 2017 read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.

2. The assets and liabilities of the Company that are directly allocable/identifiable 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line are allocated by the Management and relied upon by the auditors. In respect of the following assets and liabilities the same have been allocated by the Management as indicated below and such basis of allocation has been relied upon by the Auditor's:
 - a. Contingency Reserve Investment has been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on the balance of Contingency Reserve as on 31st March 2020 as certified by Management.
 - b. Long term borrowings & Interest Accrued but not due on borrowing have been allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Regulatory Debt of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line as at 01st April 2019 to the total Regulatory Debt of the Company as at 01st April 2019, which has been certified by Management and relied upon by the Auditors.



- c. Working Capital Loan forming part of Short Term Borrowing have been allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Regulatory Working Capital of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line determined as at 01st April 2019 to the total Regulatory Working Capital of the Company as at 01st April 2019, which has been certified by the Management and relied upon by the Auditors.
- d. Provision for Gratuity and Compensated absences forming part of Long Term and Short Term provisions have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Employee expenditure ratio as determined as at 31st March 2020 to the total Employee Expenditure of the Company as at 31st March 2020, which is relied upon by the Auditors.
- e. Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2019 and 31st March 2020.

Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recovered when deferred tax liability forms a part of current tax.

Deferred Asset recoverable/adjustable are calculated based on WDV of Regulatory block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.

- f. Advance from Customer under Other Current Liabilities, refer to line modification work, hence allocated under concern regulatory business.
 - g. Cash & Cash Equivalent have been allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company and relied upon by the Auditors.
3. Head Office Account is a balancing figure.
 4. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post our issuance of audit report dated 08th May 2020.



ADANI TRANSMISSION (INDIA) LIMITED

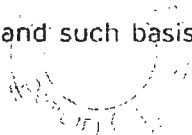
Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra – Sami – Dehgam Transmission Lines

Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

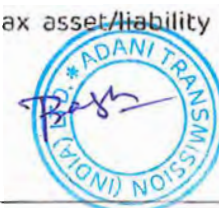
Notes to Annexure-2

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line of Central Electrical Regulatory Commission Licensed Area (including its telecom business) – Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2020.
The above Transmission lines' trial balance forms part of the audited financial statements of the Company for the year ended and as at 31st March, 2020 which have been prepared in accordance with Indian Accounting Standard (IND AS) as notified under the Companies (Indian Accounting Standards) Rules, 2017 read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.
2. Depreciation and Amortisation Expenditure are directly allocable/identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Gross Regulatory fixed asset block of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.
3. Operating Expenses, consisting of O&M Agreement charges/ consumption of stores and spares, etc are directly allocable/identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on separate contract executed for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.
4. The income earned and expenditure incurred by the Company that are directly identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line is allocated by the Management and relied upon by the auditors. In respect of the following classes of Income and expenditure, the same have been allocated by the Management as indicated below and such basis of allocation has been relied upon by the

Auditor's:



- a. Income in respect of Contingency Reserve Investment – Rs. 0.44 Crores and forming part of Other Income, has been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on the balance of Contingency Reserve as on 31st March 2020.
- b. Income from Mutual fund (other than above) is allocated 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of revenue of the total revenue of the Company, which has been certified by Management and relied by Auditors. Investment in mutual fund is out of Return from equity, which is invested in business, i.e. not distributed as dividend.
- c. Bifurcation of Employee Benefit Expenses in Schedule 23 between Salaries, Bonus and Other Allowance has been done by Management based on SAP report and Common Employee Expenses are allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company and relied upon by the Auditors.
- d. Interest on Long Term Borrowing and forming part of Finance Cost have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Regulatory Debt as at 31st March 2020 to the total Regulatory Debt of the Company as at 31st March 2020, which has been certified by the Management and relied upon by the Auditors.
- e. Interest on Working Capital Loan has been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Regulatory Working Capital of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line determined as at 31st March 2020 to the total Regulatory Working Capital of the Company as at 31st March 2020, which has been certified by the Management and relied upon by the Auditors.
- f. Corporate Social Responsibility (CSR) expenditure is allocated 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on profit of respective business (before CSR).
- g. Tax expense are allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of profit before tax of the respective business to the total Profit before tax of the Company.
- h. Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2019 and 31st March 2020.



Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recovered when deferred tax liability forms a part of current tax.

Deferred Asset recoverable/adjustable are calculated based on WDV of Regulatory block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.

- i. Corporate Expenses have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line, in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company, which has been certified by Management and relied by Auditors.
5. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post our issuance of audit report dated 08th May 2020.



ADANI TRANSMISSION (INDIA) LIMITED**Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines****Notes to Annexure-3**

1. The cash flow has been prepared based on the balance sheets and statements of profit and loss of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line of Central Electrical Regulatory Commission Licensed Area as at and for the years ended 31st March, 2020 and 31st March, 2019.
2. Head Office Account is a balancing figure in Balance sheet and difference of Head Office Account between two balance sheets have been considered as financing activities.



To,
The Board of Directors,
Adani Transmission (India) Limited
Adani Corporate House ,
Shantigram, Near Vaishnav Devi Circle
S.G. Highway, Khodiyar,
Ahmedabad -382421
Gujarat

REF: HS/ATIL/2021-22/24

INDEPENDENT AUDITOR'S CERTIFICATE CERTIFYING BALANCE SHEET ("ANNEXURE 1"), PROFIT AND LOSS ("ANNEXURE 2") AND CASH FLOW STATEMENT ("ANNEXURE 3") OF 500 KV HVDC MUNDRA TO MOHINDERGARH & 400 KV MUNDRA-SAMI-DEHGAM TRANSMISSION LINES ("CERC LINES") AS AT AND FOR THE YEAR ENDED MARCH 31, 2021

1. This certificate is issued in accordance with the terms of our engagement letter dated August 31, 2021.
2. We, Deloitte Haskins & Sells LLP, Chartered Accountants (Firm Registration Number 117366W/W-100018), the Statutory Auditors of Adani Transmission (India) Limited ("the Company"), having its registered office at "Adani Corporate House", Shantigram, Near Vaishnav Devi Circle, S.G. Highway, Khodiyar, Ahmedabad 382421, Gujarat, India, have examined the audited books of account and other relevant records and documents of the Company as at and for the year ended March 31, 2021, in the normal course of its business for the purpose of confirming that the particulars mentioned in Annexure 1, Annexure 2 and Annexure 3 including the related schedules and other explanatory information ("the Statements") of the CERC lines forming part of the Company are appropriately extracted from the audited books of account including the trial balance of CERC Lines and other relevant records and documents maintained by the Company. The Statements are attached to this certificate and are initialed by us for identification purpose.
3. We have been requested by the management of the Company to provide a certificate on the Statements attached for submission to Central Electricity Regulatory Commission (CERC), which have been prepared by the Company based on the audited books of account including the trial balance of CERC lines and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2021.

Management's Responsibility

4. The management of the Company is responsible for preparation of the attached Statements from the audited books of accounts including the trial balance of CERC Lines and other relevant records as at and for the year ended March 31, 2021 and for ensuring compliance with the CERC Regulations and other applicable laws. This responsibility includes collecting, collating and validating data and presentation thereof in the said Statements and the design, implementation and maintenance of internal control suitable for ensuring compliance with the above. Management is also responsible for determining the basis of allocation of certain account balances to the CERC lines as described in the notes to the Statements.



One International Center, Tower 3, 32nd Floor, Senapati Bapat Marg, Elphinstone Road (West), Mumbai-400 013, Maharashtra, India.

(LLP Identification No AAB-8737)

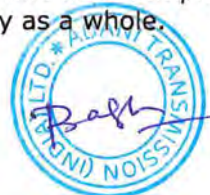
Auditor's responsibility

5. Our responsibility, for the purpose of this certificate, is limited to certifying that the particulars contained in the Statements have been appropriately extracted from the audited books of account including the trial balance of CERC Lines and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2021.
6. The financial statements of the Company as at and for the year ended March 31, 2021, have been audited by us, on which we issued an unmodified audit opinion vide our report dated May 05, 2021. Our audit of the financial statements was conducted in accordance with the Standards on Auditing specified under Section 143(10) of the Companies Act, 2013. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.
7. Nothing contained in this Certificate, nor anything said and done in the course of, or in connection with the services that are subject to this Certificate, will extend any duty of care that we may have in our capacity of the statutory auditors of any financial statements of the Company.
8. We conducted our examination of the audited books of account, records and documents of the Company in accordance with the Guidance Note on Reports or Certificates for Special Purposes (Revised 2016) issued by the Institute of Chartered Accountants of India (ICAI), in so far as applicable for the purposes of this certificate. This Guidance note requires that we comply with the ethical requirements of the Code of Ethics issued by ICAI.
9. We have complied with the relevant applicable requirements of the Standard on Quality Control (SQC) 1, Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Service Engagements.

Conclusion

10. On the basis of our examination of the audited books of account including the trial balance of CERC Lines, other relevant records and documents, the representations received from the management, information and explanation given to us, and subject to other explanatory notes to the Statements, we confirm that the information contained in Annexure 1, Annexure 2 (including related schedules) and Annexure 3 have been appropriately extracted from the audited books of account and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2021.

The trial balance of CERC lines forms part of the audited financial statements of the Company for the year ended and as at March 31, 2021 and the audit procedures have been done on the financial statements of the Company as a whole.



**Deloitte
Haskins & Sells LLP****Restriction on use**

11. This certificate is being issued at the request of the Company to be submitted to Central Electricity Regulatory Commission and should not be used for any other purpose or to be distributed to any other parties. Accordingly, we do not accept or assume any liability or any duty of care or for any other purpose or to any other party to whom it is shown or into whose hands it may come without our prior consent in writing.

For Deloitte Haskins & Sells LLP

Chartered Accountants

(Firm Registration No.117366W/W-100018)



Ahmedabad, October 19, 2021

H. S. Subania .

Hardik Sutaria

Partner

(Membership No.116642)

(UDIN:21116642AAAAFF7923)



Annexure 1

ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam
Transmission Lines
Balance Sheet as at 31st March, 2021

adani
Transmission

(₹ In Crores)

Particulars	Notes	As at 31st March, 2021
ASSETS		
Non-Current Assets		
Property, Plant and Equipment	1	2,713.03
Right-of-Use Assets	1A	7.59
Intangible Assets	1B	0.95
Capital Work-In-Progress		45.34
Financial Assets		
(i) Other Financial Assets	2	0.97
Other Non-current Assets	3	407.17
Total Non-Current Assets		3,175.05
Current Assets		
Inventories	4	24.77
Financial Assets		
(i) Trade Receivables	5	174.57
(ii) Cash and Cash Equivalents	6	0.36
(iii) Loans	7	0.04
(iv) Other Financial Assets	8	23.11
Other Current Assets	9	1.91
Total Current Assets		224.76
Total Assets		3,399.81
EQUITY AND LIABILITIES		
Equity		
Head Office Account		16.50
Other Equity	10	1,824.57
Total Equity		1,841.07
Liabilities		
Non-Current Liabilities		
Financial Liabilities		
(i) Borrowings	11	1,049.07
Provisions	12	14.17
Deferred Tax Liabilities (Net)	13	406.21
Total Non-Current Liabilities		1,469.45
Current Liabilities		
Financial Liabilities		
(i) Trade Payables		
- Total outstanding dues of micro enterprises and small enterprises	14	0.16
- Total outstanding dues of creditors other than micro enterprises and small enterprises		10.98
(ii) Other Financial Liabilities	15	64.85
Income Tax Liabilities (Net)	16	3.37
Provisions	12	0.24
Other Current Liabilities	17	9.69
Total Current Liabilities		89.29
Total Liabilities		1,558.74
Total Equity and Liabilities		3,399.81

See accompanying notes forming part of the financial statements

ADANI TRANSMISSION (INDIA) LIMITED

Sanjay Poddar
Sanjay Poddar
Chief Financial Officer

Place : Ahmedabad

Date : 19/10/2021

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Annexure 2
ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-
Dehgam Transmission Lines
Statement of Profit and Loss for the year ended 31st March, 2021

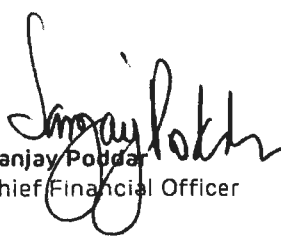
adani
Transmission

(₹ in Crores)

Particulars	Notes	For the year ended 31st March, 2021
Income		
Revenue from Operations	18	746.57
Other Income	19	4.98
Total Income		751.55
Expenses		
Operating Expenses	20	30.14
Employee Benefits Expense	21	4.98
Finance Costs	22	159.61
Depreciation and Amortisation Expenses	1, 1A & 1B	220.35
Other Expenses	23	23.09
Total Expenses		438.17
Profit Before Tax and Deferred Asset recoverable / adjustable for the year		313.38
Tax Expense:	24	
Current Tax		54.15
Deferred Tax		9.40
Total Tax Expenses		63.55
Profit After Tax but before Deferred Asset recoverable / adjustable for the year		249.83
Deferred Asset recoverable / adjustable		9.40
Profit After Tax for the year		259.23
Other Comprehensive Income/(Loss)		
Items that will not be reclassified to Profit or Loss		
- Remeasurement of the Defined Benefit Plans		0.06
-Tax relating to items that will not be reclassified to Profit or Loss		(0.01)
Total Other Comprehensive Income / (Loss) for the year (Net of Tax)		0.05
Total Comprehensive Income for the year		259.28

See accompanying notes forming part of the financial statements

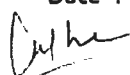
ADANI TRANSMISSION (INDIA) LIMITED


Sanjay Poddar
Chief Financial Officer



Place : Ahmedabad

Date : 19/10/2021



Annexure 3
ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Statement of Cash flows for the year ended 31st March, 2021

adani
Transmission

		(₹ in Crores)
Particulars		For the year ended 31st March, 2021
A.	Cash flows from operating activities	
	Profit before tax	313.38
	Adjustments for:	
	Depreciation and Amortisation Expense	220.35
	Gain on sale/Fair Value of current investment measured at FVTPL	(0.10)
	Finance Costs	159.61
	Unclaimed Liabilities / Excess provision written back	(0.23)
	(Reversal) / Expected Credit Loss on Trade Receivables and Capital Advances	(1.39)
	(Reversal) / Write down in Inventory Value	(2.86)
	Interest income	(0.00)
	Operating profit before working capital changes	688.76
	Movement in Working Capital:	
	(Increase) / Decrease in Assets :	
	Loans, other financial assets and other assets	37.48
	Inventories	(0.92)
	Trade Receivables	(75.37)
	Increase / (Decrease) in Liabilities :	
	Other financial liabilities, other liabilities and provisions	2.35
	Trade Payables	2.68
	Cash generated from operations	654.98
	Taxes paid (net of Refunds)	(58.85)
	Net cash generated from operating activities (A)	596.13
B.	Cash flows from investing activities	
	Payment of capital expenditure on Property, Plant and Equipment, Intangible assets including capital advances and Capital Work in Progress	(16.84)
	Interest received	0.00
	Sale of Current Investments (Net)	0.10
	Proceeds from / (Deposits in) Bank deposits (Net) (including Margin money deposit)	2.81
	Net cash from/(used in) investing activities (B)	(13.93)
C.	Cash flows from financing activities	
	Proceeds from Long-term borrowings	662.21
	Repayment of Long-term borrowings	(839.87)
	Increase/(Decrease) in HO Account balance	(233.74)
	Finance Costs paid	(171.10)
	Net cash used in financing activities (C)	(582.50)
	Net Decrease in cash and cash equivalents (A+B+C)	(0.30)
	Cash and cash equivalents at the beginning of the year	0.66
	Cash and cash equivalents at the end of the year (Refer note 6)	0.36
	(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)	
	Cash and Cash Equivalents Includes	As at
	Balances with Banks	31st March, 2021
	-In Current Accounts	0.36
	Total Cash and Cash Equivalents at the end of the year	0.36

ADANI TRANSMISSION (INDIA) LIMITED

Sanjay Poddar
Chief Financial Officer

Place : Ahmedabad

Date : 19/10/2021



1. Property, Plant and Equipment

Description of Assets	Tangible Assets							Total
	Land (Free hold)	Building	Plant & Equipment	Furniture and Fixtures	Office Equipment	Computer Equipment	Vehicles	
I. Gross carrying value								
Balance as at 1st April, 2020	57.16	79.65	3,884.79	0.90	1.05	1.18	0.14	4,024.87
Additions during the year	0.71		1.80	0.00	0.02	0.24		2.77
Balance as at 31st March, 2021	57.87	79.65	3,886.59	0.90	1.07	1.42	0.14	4,027.64
II. Accumulated Depreciation								
Balance as at 1st April, 2020	-	13.75	1,080.42	0.30	0.24	0.34	0.02	1,095.07
Depreciation for the year	-	2.74	216.48	0.06	0.07	0.18	0.01	219.54
Balance as at 31st March, 2021	-	16.49	1,296.90	0.36	0.31	0.52	0.03	1,314.61
Net Carrying Value :								
Balance as at 31st March, 2021	57.87	63.16	2,589.69	0.54	0.76	0.90	0.11	2,713.03

(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)

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Notes to Annexures

(₹ in Crores)

Particulars	Right-of-Use Assets	
	Leasehold Land	Total
Gross carrying value		
Balance as at 1st April, 2020	11.77	11.77
Additions during the year	-	-
Balance as at 31st March, 2021	11.77	11.77
Accumulated Amortisation		
Balance as at 1st April, 2020	3.58	3.58
Amortisation Charge during the year	0.60	0.60
Balance as at 31st March, 2021	4.18	4.18
Net Carrying Value as at 31st March 2021	7.59	7.59

(₹ in Crores)

Particulars	Intangible Assets	
	Computer Software	Total
Gross carrying value		
Balance as at 1st April, 2020	0.93	0.93
Additions during the year	0.46	0.46
Balance as at 31st March, 2021	1.39	1.39
Accumulated Amortisation		
Balance as at 1st April, 2020	0.23	0.23
Amortisation Charge during the year	0.21	0.21
Balance as at 31st March, 2021	0.44	0.44
Balance as at 31st March, 2021	0.95	0.95

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ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

adani
Transmission

2 Other Financial Assets - At Amortised Cost

As at
31st March, 2021
(₹ in Crores)

Security deposits		0.97
Total		0.97

3 Other Non-current Assets

As at
31st March, 2021
(₹ in Crores)

a) Capital Advances		
- Considered Good		0.96
- Considered Doubtful		0.96
Less : Expected Credit Loss on Capital Advances		0.96
b) Deferred Asset recoverable / adjustable		406.21
Total = a+b		407.17

4 Inventories

(Valued at lower of Cost and Net Realisable Value)

As at
31st March, 2021
(₹ in Crores)

Stores & spares		24.77
Total		24.77

5 Trade Receivables

(Unsecured, otherwise stated)

As at
31st March, 2021
(₹ in Crores)

Unsecured, Considered Good		174.57
Credit Impaired		174.57
Less: Expected Credit Loss		174.57
Total		174.57

6 Cash and Cash Equivalents

As at
31st March, 2021
(₹ in Crores)

Balances with banks		0.36
In current accounts		0.36
Total		0.36

7 Loans - At Amortised Cost

As at
31st March, 2021
(₹ in Crores)

Loans to Employees		0.04
Total		0.04

8 Other Financial Assets - At Amortised Cost

As at
31st March, 2021
(₹ in Crores)

Unbilled Revenue		22.96
Security deposits		0.15
Total		23.11



		As at 31st March, 2021 (₹ in Crores)
9 Other Current Assets		
Advance to Suppliers		1.29
Prepaid Expenses		0.62
Advances to Employees		0.00
Total		1.91

		As at 31st March, 2021 (₹ in Crores)
10 Other Equity		
Retained Earnings		
Opening Balance		1,565.29
Add : Profit for the year		259.23
Add/(Less): Other Comprehensive Income arising from remeasurement of Defined Benefit Plans		0.05
Closing Balance	Total	1,824.57

11 Borrowings	Non-Current	Current
	As at 31st March, 2021 (₹ in Crores)	As at 31st March, 2021 (₹ in Crores)
Unsecured		
From Related Party	1,049.07	-
Total	1,049.07	-

12 Provisions	Non-Current	Current
	As at 31st March, 2021 (₹ in Crores)	As at 31st March, 2021 (₹ in Crores)
Net Employee Defined benefit liabilities		
Provision for Gratuity	0.85	0.04
Provision for Compensated Absences	0.47	0.20
	1.32	0.24
Provision for Stamp Duty	12.85	-
Total	14.17	0.24

		As at 31st March, 2021 (₹ in Crores)
13 Deferred Tax Liabilities		
Deferred Tax Liabilities (Net)		406.21
Deferred Tax Liabilities	Total	406.21

CERC / MERC tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return on equity based on effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset recoverable / adjustable". The same will be recovered when the related deferred tax liability forms a part of current tax.



		As at 31st March, 2021 (₹ in Crores)
14 Trade Payables		
Trade Payable		
-Total outstanding dues of creditor micro enterprise and small enterprise		0.16
-Total outstanding dues of creditor other than micro enterprise and small enterprise		10.98
Total		11.14
15 Other Financial Liabilities		
		As at 31st March, 2021 (₹ in Crores)
Interest accrued but not due on borrowings		34.18
Payable on purchase of property, plant and equipment		29.75
Other Payables		0.92
Total		64.85
16 Income Tax Liabilities (Net)		
		As at 31st March, 2021 (₹ in Crores)
Current Tax:		
Current Tax Liabilities		3.37
Total		3.37
17 Other Current Liabilities		
		As at 31st March, 2021 (₹ in Crores)
Statutory liabilities		0.25
Advance from Customers		3.99
Other Payables		5.45
Total		9.69

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ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines

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Transmission

Notes to Annexures

		For the year ended 31st March, 2021 (₹ in Crores)
18 Revenue from Operations		
Income from Transmission Line		746.57
Total		746.57
19 Other Income		For the year ended 31st March, 2021 (₹ in Crores)
Gain on sale/Fair Value of current investment measured at FVTPL		0.10
Interest Income		
- Bank		0.00
Unclaimed Liabilities / Excess provision written back		1.62
Service Income		0.76
Miscellaneous Income		0.64
Sale of Inventory		1.47
Insurance Claim received		0.39
Total		4.98
(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)		
20 Operating expenses		For the year ended 31st March, 2021 (₹ in Crores)
Repairs and Maintenance		
- Plant & Equipment		26.53
- Others		0.01
Consumption of Stores and spares		3.60
Total		30.14
21 Employee Benefits Expense		For the year ended 31st March, 2021 (₹ in Crores)
Salaries, Wages and Bonus		4.36
Contribution to Provident and Other Funds		0.44
Staff Welfare Expenses		0.18
Total		4.98
22 Finance costs		For the year ended 31st March, 2021 (₹ in Crores)
Interest Expense		
-Long Term Loan		159.25
-Working Capital Loan		0.30
Bank Charges & Other Borrowing Costs		0.06
Total		159.61

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ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission
Lines
Notes to Annexures

adani
Transmission

23 Other Expenses

For the year ended
31st March, 2021
(₹ in Crores)

Short Term Lease Rental	0.16
Rates and Taxes	0.02
Legal & Professional Expenses	2.18
Directors' Sitting Fees	0.00
Payment to Auditors (Refer Note Below)	0.11
Communication Expenses	0.17
Travelling & Conveyance Expenses	1.56
Corporate Social Responsibility expenses	11.29
Electricity Expenses	4.74
Miscellaneous Expenses	2.86

Total **23.09**

(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)

Payment to auditors

For the year ended
31st March, 2021
(₹ in Crores)

As auditor:

Statutory Audit Fees (Including GST)

0.11
0.11

24 Income Tax

For the year ended
31st March, 2021
(₹ in Crores)

Tax Expenses

Current Income Tax Charge (MAT)
Deferred Tax

54.15
9.40
Total 63.55

ADANI TRANSMISSION (INDIA) LIMITED
Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines

Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

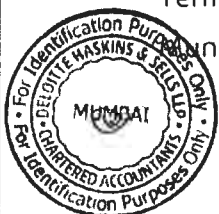
Notes to Annexure-1

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami- Dehgam Transmission Lines of Central Electrical Regulatory Commission Licensed Area (including telecom business)- Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2021.

The above Transmission lines' trial balance's forms part of the audited financial statements of the Company for the year ended and as at 31st March 2021 which have been prepared in accordance with Indian Accounting Standards (IND AS) as notified under the Companies (Indian Accounting Standards) Rules, 2017 read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.

2. The assets and liabilities of the Company that are directly allocable/identifiable 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line are allocated by the Management. In respect of the following assets and liabilities the same have been allocated by the Management as indicated below:

- a. Long term borrowings & Interest Accrued but not due on borrowing have been allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Regulatory Debt of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line as at 01st April 2020 to the total Regulatory Debt of the Company as at 01st April 2020, which has been certified by Management.
- b. Provision for Gratuity and Compensated absences forming part of Long Term and Short-Term provisions have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Employee expenditure ratio as



determined as at 31st March 2021 to the total Employee Expenditure of the Company as at 31st March 2021.

- c. Employee loans/advances are directly allocable/identifiable to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line are allocated by the Management.
- d. Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2020 and 31st March 2021.

Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recovered when deferred tax liability forms a part of current tax.

Deferred Asset recoverable/adjustable are calculated based on WDV of Regulatory block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.

- e. Income tax liabilities are allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of profit before tax for the respective years of the transmission line to the total Profit before tax of the Company for that year.
 - f. Advance from Customer under Other Current Liabilities, refer to line modification work, hence allocated under respective regulatory business.
 - g. Cash & Cash Equivalent have been allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
 - h. Prepaid expenditure have been allocated to the the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on insurance expenditure allocated to the line.
3. Head Office Account is a balancing figure.
 4. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post our issuance of audit report dated 05th May 2021.



ADANI TRANSMISSION (INDIA) LIMITED ("the Company")
Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra – Sami – Dehgam Transmission Lines

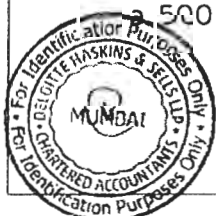
Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

Notes to Annexure-2

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line of Central Electrical Regulatory Commission Licensed Area– Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2021.

The above Transmission lines' trial balance forms part of the audited financial statements of the Company for the year ended and as at 31st March 2021 which have been prepared in accordance with Indian Accounting Standard (IND AS) as notified under the Companies (Indian Accounting Standards) Rules, 2017 read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.

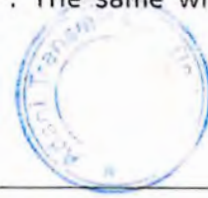
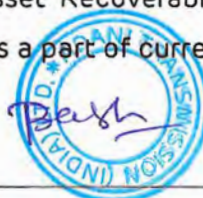
2. Depreciation and Amortisation Expenditure are directly allocable/identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Gross Regulatory fixed asset block of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.
3. Operating Expenses, O&M Agreement charges/ consumption of stores and spares / others, are directly allocable/identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on separate contract executed for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line. While common operating expenditure is allocated to 500 KV HVDC Mundra Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of revenue of the total revenue of the Company, which has been certified by Management.
4. The income earned and expenditure incurred by the Company that are directly identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission



Line is allocated by the Management. In respect of the following classes of Income and expenditure, the same have been allocated by the Management as indicated below:

- a. Income from Mutual fund (other than above) is allocated to 500 KV HVDC Mundra Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of revenue of the total revenue of the Company, which has been certified by Management. Investment in mutual fund is out of Return from equity, which is invested in business, i.e., not distributed as dividend.
- b. Bifurcation of Employee Benefit Expenses in Schedule 21 between Salaries, Bonus and Other Allowance has been done by Management based on SAP report and Common Employee Expenses are allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- c. Interest on Long-Term Borrowing and forming part of Finance Cost have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Regulatory Debt as at 31st March 2021 to the total Regulatory Debt of the Company as at 31st March 2021, which has been certified by the Management.
- d. Audit Fees is allocated to in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- e. Corporate Social Responsibility (CSR) expenditure is allocated 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on profit of respective business (before CSR).
- f. Tax expense are allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of profit before tax of the respective business to the total Profit before tax of the Company.
- g. Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2020 and 31st March 2021.

Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recovered when deferred tax liability forms a part of current tax.



Deferred Asset recoverable/adjustable are calculated based on WDV of Regulatory block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.

- h. Corporate Expenses have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line, in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company, which has been certified by Management.
5. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post our issuance of audit report dated 05th May 2021.



ADANI TRANSMISSION (INDIA) LIMITED**Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines****Notes to Annexure-3**

1. The cash flow has been prepared based on the balance sheets and statements of profit and loss of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line of Central Electrical Regulatory Commission Licensed Area as at and for the years ended 31st March 2021 and 31st March 2020.
2. Head Office Account is a balancing figure in Balance sheet and difference of Head Office Account between two balance sheets have been considered as financing activities.



REF: HS/ATIL/2021-22/3

**To,
The Board of Directors,
Adani Transmission (India) Limited
Adani Corporate House,
Shantigram, Near Vaishnav Devi Circle
S.G. Highway, Khodiyar,
Ahmedabad -382421
Gujarat**

INDEPENDENT AUDITOR'S CERTIFICATE CERTIFYING BALANCE SHEET ("ANNEXURE 1"), PROFIT AND LOSS ("ANNEXURE 2") AND CASH FLOW STATEMENT ("ANNEXURE 3") OF 500 KV HVDC MUNDRA TO MOHINDERGARH & 400 KV MUNDRA-SAMI-DEHGAM TRANSMISSION LINES ("CERC LINES") AS AT AND FOR THE YEAR ENDED MARCH 31, 2022

1. This certificate is issued in accordance with the terms of our engagement letter dated August 09, 2022.
2. We, Deloitte Haskins & Sells LLP, Chartered Accountants (Firm Registration Number 117366W/W-100018), the Statutory Auditors of Adani Transmission (India) Limited ("the Company"), having its registered office at "Adani Corporate House", Shantigram, Near Vaishnav Devi Circle, S.G. Highway, Khodiyar, Ahmedabad 382421, Gujarat, India, have examined the audited books of account and other relevant records and documents of the Company as at and for the year ended March 31, 2022, in the normal course of its business for the purpose of confirming that the particulars mentioned in Annexure 1, Annexure 2 and Annexure 3 including the related schedules and other explanatory information ("the Statements") of the CERC lines forming part of the Company are appropriately extracted from the audited books of account including the trial balance of CERC Lines and other relevant records and documents maintained by the Company. The Statements are attached to this certificate and are initialed by us for identification purpose.
3. We have been requested by the management of the Company to provide a certificate on the Statements attached for submission to Central Electricity Regulatory Commission (CERC), which have been prepared by the Company based on the audited books of account including the trial balance of CERC lines and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2022.

Management's Responsibility

4. The management of the Company is responsible for preparation of the attached Statements from the audited books of accounts including the trial balance of CERC Lines and other relevant records as at and for the year ended March 31, 2022 and for ensuring compliance with the CERC Regulations and other applicable laws. This responsibility includes collecting, collating and validating data and presentation thereof in the said Statements and the design, implementation and maintenance of internal control suitable for ensuring compliance with the above. Management is also responsible for determining the basis of allocation of certain account balances to the CERC lines as described in the notes to the Statements.



Auditor's responsibility

5. Our responsibility, for the purpose of this certificate, is to obtain a limited assurance and form a conclusion as to whether the information contained in the Statements have been correctly extracted from the audited books of account of the Company including the trial balance of CERC Lines and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2022. A limited assurance engagement includes performing procedures to obtain sufficient appropriate evidence that vary in nature, timing and extent than a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had we performed a reasonable assurance engagement.
6. The financial statements of the Company as at and for the year ended March 31, 2022, have been audited by us, on which we issued an unmodified audit opinion vide our report dated May 02, 2022. Our audit of the financial statements was conducted in accordance with the Standards on Auditing specified under Section 143(10) of the Companies Act, 2013. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.
7. Nothing contained in this Certificate, nor anything said and done in the course of, or in connection with the services that are subject to this Certificate, will extend any duty of care that we may have in our capacity of the statutory auditors of any financial statements of the Company.
8. We conducted our examination of the audited books of account, records and documents of the Company in accordance with the Guidance Note on Reports or Certificates for Special Purposes (Revised 2016) issued by the Institute of Chartered Accountants of India (ICAI), in so far as applicable for the purposes of this certificate. This Guidance note requires that we comply with the ethical requirements of the Code of Ethics issued by ICAI.
9. We have complied with the relevant applicable requirements of the Standard on Quality Control (SQC) 1, Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Service Engagements.

Conclusion

10. On the basis of our examination of the audited books of account including the trial balance of CERC Lines, other relevant records and documents, the representations received from the management, information and explanation given to us, and subject to other explanatory notes to the Statements, we confirm that the information contained in Annexure 1, Annexure 2 (including related schedules) and Annexure 3 have been appropriately extracted from the audited books of account and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2022.

The trial balance of CERC lines forms part of the audited financial statements of the Company for the year ended and as at March 31, 2022 and the audit procedures have been done on the financial statements of the Company as a whole.



**Deloitte
Haskins & Sells LLP****Restriction on use**

11. This certificate is being issued at the request of the Company to be submitted to Central Electricity Regulatory Commission and should not be used for any other purpose or to be distributed to any other parties. Accordingly, we do not accept or assume any liability or any duty of care or for any other purpose or to any other party to whom it is shown or into whose hands it may come without our prior consent in writing.

For Deloitte Haskins & Sells LLP
Chartered Accountants
(Firm Registration No.117366W/W-100018)



H. S. Sutaria

Hardik Sutaria
Partner

(Membership No.116642)

(UDIN: 22116642AUGCOU2654)

Ahmedabad, September 22, 2022



Annexure 1
ADANI TRANSMISSION (INDIA) LIMITED
 500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam
 Transmission Lines
 Balance Sheet as at 31st March, 2022

adani
 Transmission

(₹ in Crores)

Particulars	Notes	As at 31st March, 2022
ASSETS		
Non-Current Assets		
Property, Plant and Equipment	1	2,570.10
Right-of-Use Assets	1A	6.99
Intangible Assets	1B	1.24
Capital Work-in-Progress		5.39
Financial Assets		
(i) Other Financial Assets	2	0.98
Income Tax Assets (Net)	3	58.68
Other Non-current Assets	4	383.98
Total Non-Current Assets		3,027.36
Current Assets		
Inventories	5	27.95
Financial Assets		
(i) Trade Receivables	6	82.04
(ii) Cash and Cash Equivalents	7	1.10
(iii) Loans	8	0.02
(iv) Other Financial Assets	9	0.14
Other Current Assets	10	2.58
Total Current Assets		113.83
Total Assets		3,141.19
EQUITY AND LIABILITIES		
Equity		
Head Office Account		29.00
Other Equity	11	2,049.31
Total Equity		2,078.31
Liabilities		
Non-Current Liabilities		
Financial Liabilities		
(i) Borrowings	12	263.45
Provisions	13	14.48
Deferred Tax Liabilities (Net)	14	382.77
Total Non-Current Liabilities		660.70
Current Liabilities		
Financial Liabilities		
(i) Borrowings	15	218.49
(i) Trade Payables		
- Total outstanding dues of micro enterprises and small enterprises	16	0.59
- Total outstanding dues of creditors other than micro enterprises and small enterprises		21.58
(ii) Other Financial Liabilities	17	147.96
Provisions	13	0.36
Other Current Liabilities	18	13.20
Total Current Liabilities		402.18
Total Liabilities		1,062.88
Total Equity and Liabilities		3,141.19

See accompanying notes forming part of the financial statements

ADANI TRANSMISSION (INDIA) LIMITED



Rohit Soni
 Whole Time Director

Place: Ahmedabad

Date: 22/09/2022



Annexure 2

ADANI TRANSMISSION (INDIA) LIMITED

500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines

Statement of Profit and Loss for the year ended 31st March, 2022



(₹ in Crores)

Particulars	Notes	For the year ended 31st March, 2022
Income		
Revenue from Operations	19	638.69
Other Income	20	31.52
Total Income		670.21
Expenses		
Operating Expenses	21	31.09
Employee Benefits Expense	22	6.75
Finance Costs	23	119.60
Depreciation and Amortisation Expenses	1, 1A & 1B	220.88
Other Expenses	24	19.71
Total Expenses		398.03
Profit Before Tax and Deferred Asset recoverable / adjustable for the year		272.18
Tax Expense:	25	
Current Tax		47.54
Deferred Tax		(23.44)
Total Tax Expenses		24.10
Profit After Tax but before Deferred Asset recoverable / adjustable for the year		248.08
Deferred Asset recoverable / adjustable		(23.44)
Profit After Tax for the year		224.64
Other Comprehensive Income/(Loss)		
Items that will not be reclassified to Profit or Loss		
- Remeasurement of the Defined Benefit Plans		(0.07)
- Tax relating to items that will not be reclassified to Profit or Loss		0.02
Total Other Comprehensive Income / (Loss) for the year (Net of Tax)		(0.05)
Total Comprehensive Income for the year		224.59

See accompanying notes forming part of the financial statements

ADANI TRANSMISSION (INDIA) LIMITED


Rohit Soni
 Whole Time Director


Place : Ahmedabad

Date : 22/09/22

Annexure 3
ADANI TRANSMISSION (INDIA) LIMITED
 500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
 Statement of Cash Flows for the year ended 31st March, 2022

adani
 Transmission

		(₹ in Crores)
Particulars		For the year ended 31st March, 2022
A. Cash flows from operating activities		
Profit before tax		272.18
Adjustments for:		
Depreciation and Amortisation Expense		220.88
Finance Costs		119.60
Loss on scrapping of Fixed Asset		4.07
Interest income		(24.13)
Operating profit before working capital changes		592.60
Movement in Working Capital:		
(Increase) / Decrease in Assets :		
Loans, other financial assets and other assets		21.96
Inventories		(3.17)
Trade Receivables		92.53
Increase / (Decrease) in Liabilities :		
Other financial liabilities, other liabilities and provisions		71.16
Trade Payables		11.04
Cash generated from operations		786.12
Taxes paid (net of Refunds)		(106.24)
Net cash generated from operating activities (A)		679.88
B. Cash flows from investing activities		
Payment of capital expenditure on Property, Plant and Equipment, Intangible assets including capital advances and Capital Work in Progress		(55.28)
Interest received		20.78
Sale of Current Investments (Net)		.
Proceeds from / (Deposits in) Bank deposits (Net) (Including Margin money deposit)		.
Net cash from/(used in) investing activities (B)		(34.50)
C. Cash flows from Financing activities		
Proceeds from Long-term borrowings		141.63
Repayment of Long-term borrowings		(709.70)
Proceeds from Short-term borrowings		0.94
Increase/(Decrease) in HO Account balance		12.49
Finance Costs paid		(89.98)
Net cash used in financing activities (C)		(644.62)
Net Decrease in cash and cash equivalents (A+B+C)		0.76
Cash and cash equivalents at the beginning of the year		0.36
Cash and cash equivalents at the end of the year (Refer note 7)		1.12
(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)		
Cash and Cash Equivalents Includes		As at
		31st March, 2022
Balances with Banks		
- In Current Accounts		1.10
Total Cash and Cash Equivalents at the end of the year		1.10



ADANI TRANSMISSION (INDIA) LIMITED

Rohit Soni
 Whole Time Director

Place : Ahmedabad
 Date : 22/09/2022



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mahendergarh & 400 KV Mundra-Sami-Dangam Transmission Lines

adani
Transmission

Notes to Annexures

1. Property, Plant and Equipment

(₹ in Crores)

Description of Assets	Tangible Assets							Total
	Land (Free hold)	Building	Plant & Equipment	Furniture and Fixtures	Office Equipment	Computer Equipment	Vehicles	
I. Gross carrying value								
Balance as at 1st April, 2021	57.87	79.69	3,886.59	0.90	1.07	1.42	0.14	4,027.64
Additions during the year	0.01	0.76	78.42	-	1.05	0.89	-	81.13
Disposals during the year	-	-	(6.88)	-	-	-	-	(6.88)
Balance as at 31st March, 2022	57.88	80.41	3,958.13	0.90	2.12	2.31	0.14	4,101.89
II. Accumulated Depreciation								
Balance as at 1st April, 2021	-	16.49	1,296.90	0.36	0.31	0.52	0.03	1,314.61
Depreciation for the year	-	2.76	216.85	0.06	0.10	0.21	0.01	219.99
Other Adjustment	-	-	(2.81)	-	-	-	-	(2.81)
Balance as at 31st March, 2022	-	19.25	1,510.94	0.42	0.41	0.73	0.04	1,531.79
Net Carrying Value :								
Balance as at 31st March, 2022	57.88	61.16	2,447.19	0.48	1.71	1.58	0.10	2,570.10

(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

adani
Transmission

1A : Right-of-Use Assets (₹ in Crores)

Particulars	Right-of-Use Assets	
	Leasehold Land	Total
Gross carrying value		
Balance as at 1st April, 2021	11.77	11.77
Additions during the year	-	-
Balance as at 31st March, 2022	11.77	11.77
Accumulated Amortisation		
Balance as at 1st April, 2021	4.18	3.98
Amortisation Charge during the year	0.60	0.60
Balance as at 31st March, 2022	4.78	4.78
Net Carrying Value as at 31st March 2022	6.99	6.99

1B : Intangible Assets (₹ in Crores)

Particulars	Intangible Assets	
	Computer Software	Total
Gross carrying value		
Balance as at 1st April, 2021	1.39	1.39
Additions during the year	0.56	0.56
Balance as at 31st March, 2022	1.95	1.95
Accumulated Amortisation		
Balance as at 1st April, 2021	0.44	0.44
Amortisation Charge during the year	0.27	0.27
Balance as at 31st March, 2022	0.71	0.71
Balance as at 31st March, 2022	1.24	1.24



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

adani
Transmission

2 Other Financial Assets - At Amortised Cost		As at 31st March, 2022 (₹ in Crores)
Security deposits		0.98
Total		0.98
3 Income Tax Assets (Net)		As at 31st March, 2022 (₹ in Crores)
Advance Income tax (net)		58.68
Total		58.68
4 Other Non-current Assets		As at 31st March, 2022 (₹ in Crores)
a) Capital Advances		
- Considered Good		-
- Considered Doubtful		1.21
		1.21
Less : Expected Credit Loss on Capital Advances		-
		1.21
Prepaid Lease Rent		-
b) Deferred Asset recoverable / adjustable		382.77
Total = a+b		383.98
5 Inventories (Valued at lower of Cost and Net Realisable Value)		As at 31st March, 2022 (₹ in Crores)
Stores & spares		27.95
Total		27.95
6 Trade Receivables (Unsecured, otherwise stated)		As at 31st March, 2022 (₹ in Crores)
Unsecured, Considered Good		82.04
Credit Impaired		-
		82.04
Less: Expected Credit Loss		-
Total		82.04
7 Cash and Cash Equivalents		As at 31st March, 2022 (₹ in Crores)
Balances with banks		
In current accounts		1.10
Total		1.10
8 Loans - At Amortised Cost		As at 31st March, 2022 (₹ in Crores)
Loans to Employees		0.02
Total		0.02



9 Other Financial Assets - At Amortised Cost

		As at 31st March, 2022 (₹ in Crores)
Security deposits		0.14
Total		0.14

10 Other Current Assets

		As at 31st March, 2022 (₹ in Crores)
Advance to Suppliers		1.72
Balances with Government Authorities		0.21
Prepaid Expenses		0.63
Advances to Employees		0.02
Total		2.58

11 Other Equity

		As at 31st March, 2022 (₹ in Crores)
Retained Earnings		
Opening Balance		1,824.72
Add : Profit for the year		224.64
Add/(Less): Other Comprehensive Income arising from remeasurement of Defined Benefit Plans		(0.05)
Closing Balance	Total	2,049.31

12 Borrowings

		Non-Current As at 31st March, 2022 (₹ in Crores)	Current As at 31st March, 2022 (₹ in Crores)
Unsecured			
From Related Party		263.45	-
Total (b)		263.45	-
Total		263.45	-

13 Provisions

		Non-Current As at 31st March, 2022 (₹ in Crores)	Current As at 31st March, 2022 (₹ in Crores)
Net Employee Defined benefit liabilities			
Provision for Gratuity		1.05	0.10
Provision for Compensated Absences		0.58	0.26
		1.63	0.36
Provision for Stamp Duty		12.85	-
Total		14.48	0.36

14 Deferred Tax Liabilities

		As at 31st March, 2022 (₹ in Crores)
Deferred Tax Liabilities (Net)		382.77
Deferred Tax Liabilities	Total	382.77

CERC / MERC tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return on equity based on effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset recoverable / adjustable". The same will be recovered when the related deferred tax liability forms a part of current tax.



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

adani
Transmission

15 Borrowings

As at
31st March, 2022
(₹ in Crores)

Secured Borrowings (Refer Note below)

Trade Credits

From Banks

0.94

0.94

Unsecured

From Related Parties

217.55

From Others

Total

218.49



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

adani
Transmission

16 Trade Payables		As at 31st March, 2022 (₹ in Crores)
Trade Payable		
-Total outstanding dues of creditor micro enterprise and small enterprise		0.59
-Total outstanding dues of creditor other than micro enterprise and small enterprise		21.58
Total		22.17
17 Other Financial Liabilities		As at 31st March, 2022 (₹ in Crores)
Interest accrued but not due on borrowings		17.80
Payable on purchase of property, plant and equipment		11.37
Refundable to customers on triung up		118.76
Other Payables		0.03
Total		147.96
18 Other Current Liabilities		As at 31st March, 2022 (₹ in Crores)
Statutory liabilities		0.39
Advance from Customers		12.36
Other Payables		0.45
Total		13.20



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

adani
Transmission

		For the year ended 31st March, 2022 (₹ in Crores)
19 Revenue from Operations		
Income from Transmission Line		638.69
Total		638.69
20 Other Income		
Interest Income		-
- Waiver of interest		3.35
- Others		0.03
Sale of Scrap & Inventory		0.96
Unclaimed Liabilities / Excess provision written back		0.00
Delayed Payment Charges		20.75
Insurance Claim received		6.43
Total		31.52
(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)		
21 Operating expenses		
Repairs and Maintenance		
- Plant & Equipment		27.02
- Building		0.04
- Others		0.06
Consumption of Stores and spares		3.97
Total		31.09
22 Employee Benefits Expense		
Salaries, Wages and Bonus		6.13
Contribution to Provident and Other Funds		0.49
Staff Welfare Expenses		0.13
Total		6.75



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission
Lines
Notes to Annexures

adani
Transmission

		For the year ended 31st March, 2022 (₹ in Crores)
23 Finance costs		
Interest Expense		
-Long Term Loan		91.16
-Working Capital Loan / Short term loan		10.55
-Carrying cost arising on Truing Up		17.83
Bank Charges & Other Borrowing Costs		0.06
Total		119.60
24 Other Expenses		
		For the year ended 31st March, 2022 (₹ in Crores)
Short Term Lease Rental		0.35
Rates and Taxes		0.02
Legal & Professional Expenses		4.44
Directors' Sitting Fees		0.00
Payment to Auditors (Refer Note Below)		0.12
Communication Expenses		0.24
Travelling & Conveyance Expenses		1.59
Corporate Social Responsibility expenses		5.77
Electricity Expenses		3.69
Miscellaneous Expenses		3.49
Total		19.71
(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)		
Payment to auditors		
As auditor:		
Statutory Audit Fees (Including GST)		0.11
Tax Audit Fees		0.01
Others		0.00
		0.12
25 Income Tax		
		For the year ended 31st March, 2022 (₹ in Crores)
Tax Expenses		
Current Income Tax Charge (MAT)		47.54
Deferred Tax		(23.44)
Total		24.10



ADANI TRANSMISSION (INDIA) LIMITED
Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines

Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

Notes to Annexure-1

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami- Dehgam Transmission Lines of Central Electrical Regulatory Commission Licensed Area (including telecom business)- Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2022.

The above Transmission lines' trial balance forms part of the audited financial statements of the Company for the year ended and as at 31st March 2022 which have been prepared in accordance with Indian Accounting Standards (IND AS) as notified under the Companies (Indian Accounting Standards) Rules, 2017 read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.

2. The assets and liabilities of the Company that are directly allocable/identifiable 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line are allocated by the Management to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line. In respect of the following assets and liabilities the same have been allocated by the Management as indicated below:

- a. Long term borrowings, Short term borrowings and Interest Accrued on borrowing have been allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Regulatory Debt of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line as at 01st April 2021 to the total Regulatory Debt of the Company as at 01st April 2021, which has been certified by Management.

- b. Provision for Gratuity and Compensated absences forming part of Long Term and Short-term provisions have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Employee expenditure ratio as



determined as for the year ended 31st March 2022 to the total Employee Expenditure of the Company for the year ended 31st March 2022.

- c. Employee loans/advances which are directly allocable/identifiable to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line are allocated by the Management to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line and Common Employee loans/advances are allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- d. Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2021 and 31st March 2022.

Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recovered when deferred tax liability forms a part of current tax.

Deferred Asset recoverable/adjustable are calculated based on WDV of Regulatory block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.

- e. Income tax liabilities are allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of profit before tax for the respective years of the transmission line to the total Profit before tax of the Company for that year.
- f. Advance from Customer under Other Current Liabilities, refer to line modification work, hence allocated under respective regulatory business.
- g. Cash & Cash Equivalent have been allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- h. Prepaid expenditure has been allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on insurance expenditure allocated to the line.

3. Head Office Account is a balancing figure.



4. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post our issuance of audit report dated 02nd May 2022.



ADANI TRANSMISSION (INDIA) LIMITED ("the Company")

Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines

Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

Notes to Annexure-2

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line of Central Electrical Regulatory Commission Licensed Area (including telecom business)- Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2022.
 The above Transmission lines' trial balance forms part of the audited financial statements of the Company for the year ended and as at 31st March 2022 which have been prepared in accordance with Indian Accounting Standards (IND AS) as notified under the Companies (Indian Accounting Standards) Rules, 2017 read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.
2. Depreciation and Amortisation Expenditure are directly allocable/identifiable to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Gross Regulatory fixed asset block of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.
3. Operating Expenses, O&M Agreement charges, Consumption of stores and spares / others, are directly allocable/identifiable to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on separate contract executed for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line. While common operating expenditure is allocated to 500 KV HVDC Mundra Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of revenue of the total revenue of the Company, which has been certified by Management.
4. The income earned and expenditure incurred by the Company that are directly identifiable to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line by the Management to 500 KV HVDC Mundra to Mohindergarh & 400 KV



Mundra- Sami-Dehgam Transmission Line. In respect of the following classes of Income and expenditure, the same have been allocated by the Management as indicated below:

- a. Bifurcation of Employee Benefit Expenses in Schedule 20 between Salaries, Bonus and Other Allowance has been done by Management based on SAP report, and Common Employee Expenses are allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- b. Interest on Long-Term Borrowing and Short-Term Borrowing forming part of Finance Cost has been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Regulatory Debt as at 01st April 2021 to the total Regulatory Debt of the Company as at 01st April 2021, which has been certified by the Management.
- c. Interest on Working Capital Loan has been equally allocated to 400 KV Tiroda Warora Transmission line (50%) and 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines (50%), which has been certified by the Management.
- d. Audit Fees is allocated to in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- e. Corporate Social Responsibility (CSR) expenditure is allocated 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on profit of respective business (before CSR).
- f. Tax expenses are allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of profit before tax of the respective business to the total Profit before tax of the Company.
- g. Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2021 and 31st March 2022.

Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recoverable when deferred tax liability forms a part of current tax.



Deferred Asset recoverable/adjustable are calculated based on WDV of Regulatory block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.

- h. Corporate Expenses have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line, in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company, which has been certified by Management.
5. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post our issuance of audit report dated 02nd May 2022.



ADANI TRANSMISSION (INDIA) LIMITED

Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines

Notes to Annexure-3

1. The cash flow has been prepared based on the balance sheets and statements of profit and loss of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line of Central Electrical Regulatory Commission Licensed Area as at and for the years ended 31st March 2022 and 31st March 2021.
2. Head Office Account is a balancing figure in Balance sheet and difference of Head Office Account between two balance sheets have been considered as financing activities.



REF: HS/ATIL/2022-23/03

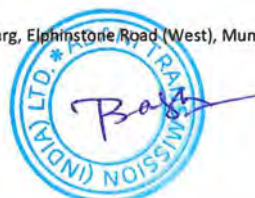
**To,
The Board of Directors,
Adani Transmission (India) Limited
Adani Corporate House,
Shantigram, Near Vaishnav Devi Circle
S.G. Highway, Khodiyar,
Ahmedabad -382421
Gujarat**

INDEPENDENT PRACTITIONER'S CERTIFICATE CERTIFYING BALANCE SHEET ("ANNEXURE 1"), PROFIT AND LOSS ("ANNEXURE 2") AND CASH FLOW STATEMENT ("ANNEXURE 3") OF 500 KV HVDC MUNDRA TO MOHINDERGARH & 400 KV MUNDRA-SAMI-DEHGAM TRANSMISSION LINES ("CERC LINES") AS AT AND FOR THE YEAR ENDED MARCH 31, 2023

1. This certificate is issued in accordance with the terms of our engagement letter dated May 29, 2023.
2. We, Deloitte Haskins & Sells LLP, Chartered Accountants (Firm Registration Number 117366W/W-100018), the Statutory Auditors of **Adani Transmission (India) Limited** ("the Company") for the year ended March 31, 2023, having its registered office at "Adani Corporate House", Shantigram, Near Vaishnav Devi Circle, S.G. Highway, Khodiyar, Ahmedabad 382421, Gujarat, India, have examined the trial balance of CERC Lines, other relevant records and documents of the Company as at and for the year ended March 31, 2023, in the normal course of its business for the purpose of confirming that the particulars mentioned in Annexure 1, Annexure 2 and Annexure 3 including the related schedules and notes ("the Statements") of the CERC lines forming part of the Company are appropriately extracted from the trial balance of CERC Lines and other relevant records and documents maintained by the Company. The Statements are attached to this certificate and are initialed by us for identification purpose.
3. We have been requested by the management of the Company to provide a certificate on the attached Statements for submission to Central Electricity Regulatory Commission (CERC), which have been prepared by the Company based on the audited books of account including the trial balance of CERC lines and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2023.

Management's Responsibility

4. The management of the Company is responsible for preparation of the attached Statements from the audited books of accounts including the trial balance of CERC Lines and other relevant records as at and for the year ended March 31, 2023 and for ensuring compliance with the CERC Regulations and other applicable laws. This responsibility includes collecting, collating and validating data and presentation thereof in the said Statements and the design, implementation and maintenance of internal controls suitable for ensuring compliance with the above. Management is also responsible for determining the basis of allocation of account balances and transactions to the CERC Lines.



Deloitte Haskins & Sells LLP

Practitioner's Responsibility

5. Our responsibility, for the purpose of this certificate, is limited to certifying that the information contained in the Statements have been appropriately extracted from the trial balance of CERC Lines and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2023.
6. The financial statements of the Company as at and for the year ended March 31, 2023, have been audited by us, on which we issued an unmodified audit opinion vide our report dated May 29, 2023.

Our audit of the financial statements for the year ended March 31, 2023, was conducted in accordance with the Standards on Auditing specified under Section 143(10) of the Companies Act, 2013. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. Our audits were not planned and performed in connection with any transaction to identify matters that may be of potential interest to third party.

7. Nothing contained in this Certificate, nor anything said and done in the course of, or in connection with the services that are subject to this Certificate, will extend any duty of care that we may have in our capacity of the statutory auditors of any financial statements of the Company.
8. We conducted our examination in accordance with the Guidance Note on Reports or Certificates for Special Purposes (Revised 2016), issued by the Institute of Chartered Accountants of India ("the ICAI"), in so far as applicable for the purpose of this certificate. This Guidance Note requires that we comply with the ethical requirements of the Code of Ethics issued by the ICAI.
9. We have complied with the relevant applicable requirements of the Standard on Quality Control (SQC) 1, Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Service Engagements.

Opinion

10. On the basis of our examination of the trial balance of CERC Lines, other relevant records and documents, representations received from the management, information and explanations given to us, and subject to the notes to the Statements, we confirm that the information contained in Annexure 1, Annexure 2 and Annexure 3 (including related schedules) have been appropriately extracted from the trial balance of CERC Lines and other relevant records and documents maintained by the Company as at and for the year ended March 31, 2023.

While, the trial balance of CERC lines forms part of the audited financial statements of the Company for the year ended and as at March 31, 2023, the audit procedures have been done on the financial statements of the Company as a whole.



**Deloitte
Haskins & Sells LLP****Restriction on use**

11. This certificate is being issued at the request of the Company to be submitted to Central Electricity Regulatory Commission and should not be used for any other purpose or to be distributed to any other parties. Accordingly, we do not accept or assume any liability or any duty of care or for any other purpose or to any other party to whom it is shown or into whose hands it may come without our prior consent in writing.

For Deloitte Haskins & Sells LLP

Chartered Accountants

(Firm Registration No.117366W/W-100018)

Hardik Sutaria

Partner

(Membership No.116642)

(UDIN: 23116642BGWGGD7742)

Ahmedabad, October 27, 2023



Annexure 1
ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam
Transmission Lines
Balance Sheet as at 31st March, 2023

adani
 Energy Solutions

(₹ in Crores)

Particulars	Notes	As at 31st March, 2023
ASSETS		
Non-Current Assets		
Property, Plant and Equipment	1	2,363.75
Right-of-Use Assets	1A	6.40
Intangible Assets	1B	1.37
Capital Work-In-Progress		22.87
Financial Assets		
(i) Loans	2	111.58
Income Tax Assets (Net)	3	20.08
Other Non-current Assets	4	390.64
Total Non-Current Assets		2,916.69
Current Assets		
Inventories	5	35.04
Financial Assets		
(i) Trade Receivables	6	335.98
(ii) Cash and Cash Equivalents	7	5.97
(iii) Loans	8	0.07
(iv) Other Financial Assets	9	1.08
Other Current Assets	10	5.68
Total Current Assets		383.82
Total Assets		3,300.51
EQUITY AND LIABILITIES		
Equity		
Head Office Account (Adjusted against Loan to Holding Company)		-
Other Equity	11	2,303.92
Total Equity		2,303.92
Liabilities		
Non-Current Liabilities		
Financial Liabilities		
(i) Borrowings	12	363.08
Provisions	13	1.19
Deferred Tax Liabilities (Net)	14	386.88
Total Non-Current Liabilities		751.15
Current Liabilities		
Financial Liabilities		
(i) Borrowings	15	49.48
(i) Trade Payables		
- Total outstanding dues of micro enterprises and small enterprises	16	1.03
- Total outstanding dues of creditors other than micro enterprises and small enterprises		53.68
(ii) Other Financial Liabilities	17	121.88
Provisions	13	13.13
Other Current Liabilities	18	6.24
Total Current Liabilities		245.44
Total Liabilities		996.59
Total Equity and Liabilities		3,300.51

See accompanying notes forming part of the financial statements

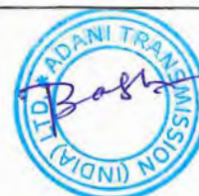
ADANI TRANSMISSION (INDIA) LIMITED



Rohit Soni
 Whole Time Director

Place : Ahmedabad

Date : 27/10/23



Annexure 2
ADANI TRANSMISSION (INDIA) LIMITED
**500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-
 Dehgam Transmission Lines**

adani
 Energy Solutions

Statement of Profit and Loss for the year ended 31st March, 2023

(₹ in Crores)

Particulars	Notes	For the year ended 31st March, 2023
Income		
Revenue from Operations	19	654.42
Other Income	20	5.52
Total Income		659.94
Expenses		
Operating Expenses	21	32.35
Employee Benefits Expense	22	6.39
Finance Costs	23	63.31
Depreciation and Amortisation Expenses	1, 1A & 1B	225.19
Other Expenses	24	24.18
Total Expenses		351.42
Profit Before Tax and Deferred Asset recoverable / adjustable for the year		308.52
Tax Expense:	25	
Current Tax		53.91
Deferred Tax		4.11
Total Tax Expenses		58.02
Profit After Tax but before Deferred Asset recoverable / adjustable for the year		250.50
Deferred Asset recoverable / adjustable		4.11
Profit After Tax for the year		254.61
Other Comprehensive Income/(Loss)		
Items that will not be reclassified to Profit or Loss		
- Remeasurement of the Defined Benefit Plans		(0.02)
- Tax relating to Items that will not be reclassified to Profit or Loss		-
Total Other Comprehensive Income / (Loss) for the year (Net of Tax)		(0.02)
Total Comprehensive Income for the year		254.59

See accompanying notes forming part of the financial statements

ADANI TRANSMISSION (INDIA) LIMITED



Rohit Soni
 Whole Time Director



Place: Ahmedabad

Date: 27/10/23

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Annexure 3
ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Statement of Cash flows for the year ended 31st March, 2023

adani
Power. Gas. Water.

		(₹ in Crores)
Particulars		For the year ended 31st March, 2023
A.	Cash flows from operating activities	
	Profit before tax	308.52
	Adjustments for:	
	Depreciation and Amortisation Expense	225.19
	Finance Costs	63.31
	Loss on scrapping of Fixed Asset	0.18
	Interest income	(3.40)
	Operating profit before working capital changes	593.80
	Movement in Working Capital:	
	(Increase) / Decrease in Assets :	
	Loans, other financial assets and other assets	(3.06)
	Inventories	(7.09)
	Trade Receivables	(253.94)
	Increase / (Decrease) in Liabilities :	
	Other financial liabilities, other liabilities and provisions	(29.44)
	Trade Payables	32.54
	Cash generated from operations	332.81
	Taxes paid (net of Refunds)	(15.31)
	Net cash generated from operating activities (A)	317.50
B.	Cash flows from investing activities	
	Payment for acquisition of property plant and equipment (including capital advance and CWIP)	(42.63)
	Interest received	1.63
	Loan to Employee	(0.05)
	Non Current Loan given	(275.45)
	Non Current Loan received back	32.01
	Net cash from/(used in) investing activities (B)	(284.49)
C.	Cash flows from financing activities	
	Proceeds from Long-term borrowings	123.19
	Repayment of Long-term borrowings	(44.24)
	Increase/(Decrease) in HO Account balance	104.63
	Proceeds/ (Repayment) from Short-term borrowings(Net)	(169.01)
	Finance Costs paid	(42.71)
	Net cash used in financing activities (C)	(28.14)
	Net Decrease in cash and cash equivalents (A+B+C)	4.87
	Cash and cash equivalents at the beginning of the year	1.10
	Cash and cash equivalents at the end of the year (Refer note 7)	5.97
	(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)	
	Cash and Cash Equivalents Includes	As at 31st March, 2023
	Balances with Banks	
	-In Current Accounts	5.97
	Total Cash and Cash Equivalents at the end of the year	5.97



Rohit Sani
 Whole Time Director



Place : Ahmedabad

Date : 27/10/2023

Signature



1. Property, Plant and Equipment

Description of Assets	Tangible Assets							Total
	Land (Free hold)	Building	Plant & Equipment	Furniture and Fixtures	Office Equipment	Computer Equipment	Vehicles	
I. Gross carrying value								
Balance as at 1st April, 2022	57.88	80.42	3,958.13	0.90	2.12	2.31	0.14	4,101.80
Additions during the year	-	0.11	15.28	0.08	1.42	1.16	-	18.05
Disposals during the year	-	-	-	-	(0.39)	(0.06)	-	(0.45)
Balance as at 31st March, 2023	57.88	80.53	3,973.41	0.98	3.15	3.41	0.14	4,119.50
II. Accumulated Depreciation								
Balance as at 1st April, 2022	-	19.26	1,510.94	0.42	0.41	0.73	0.04	1,531.80
Depreciation for the year	-	2.77	220.81	0.06	0.18	0.38	0.01	224.21
Other Adjustment	-	-	-	-	(0.20)	(0.06)	-	(0.26)
Balance as at 31st March, 2023	-	22.03	1,731.75	0.48	0.39	1.05	0.05	1,755.75
Net Carrying Value :								
Balance as at 31st March, 2023	57.88	58.50	2,241.66	0.50	2.76	2.36	0.09	2,363.75

(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

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TRANSMISSION

1A : Right-of-Use Assets (₹ in Crores)

Particulars	Right-of-Use Assets	
	Leasehold Land	Total
Gross carrying value		
Balance as at 1st April, 2022	11.77	11.77
Additions during the year	-	-
Balance as at 31st March, 2023	11.77	11.77
Accumulated Amortisation		
Balance as at 1st April, 2022	4.78	4.78
Amortisation Charge during the year	0.59	0.59
Balance as at 31st March, 2023	5.37	5.37
Net Carrying Value as at 31st March 2023	6.40	6.40

1B : Intangible Assets (₹ in Crores)

Particulars	Intangible Assets	
	Computer Software	Total
Gross carrying value		
Balance as at 1st April, 2022	1.95	1.95
Additions during the year	0.52	0.52
Balance as at 31st March, 2023	2.47	2.47
Accumulated Amortisation		
Balance as at 1st April, 2022	0.71	0.71
Amortisation Charge during the year	0.39	0.39
Balance as at 31st March, 2023	1.10	1.10
Balance as at 31st March, 2023	1.37	1.37



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

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 Energy Solutions

		As at 31st March, 2023 (₹ In Crores)
2	Non Current Financial Assets - At Amortised Cost	
	Loan to holding company	245.21
	Less: Head Office Account	133.63
		<u>111.58</u>
3	Income Tax Assets (Net)	As at 31st March, 2023 (₹ in Crores)
	Advance Income tax (net)	20.08
	Total	<u>20.08</u>
4	Other Non-current Assets	As at 31st March, 2023 (₹ in Crores)
	a) Capital Advances - Considered Good	3.76
		3.76
	b) Deferred Asset recoverable / adjustable	386.88
	Total = a+b	<u>390.64</u>
5	Inventories (Valued at lower of Cost and Net Realisable Value)	As at 31st March, 2023 (₹ in Crores)
	Stores & spares	35.04
	Total	<u>35.04</u>
6	Trade Receivables (Unsecured, otherwise stated)	As at 31st March, 2023 (₹ in Crores)
	Unsecured, Considered Good	335.98
	Credit Impaired	-
		335.98
	Less: Expected Credit Loss	-
	Total	<u>335.98</u>
7	Cash and Cash Equivalents	As at 31st March, 2023 (₹ in Crores)
	Balances with banks In current accounts	5.97
	Total	<u>5.97</u>
8	Loans - At Amortised Cost	As at 31st March, 2023 (₹ in Crores)
	Loans to Employees	0.07
	Total	<u>0.07</u>
9	Other Financial Assets	As at 31st March, 2023 (₹ in Crores)
	Security deposits	1.08
	Total	<u>1.08</u>



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

adani
TRANSMISSION

10 Other Current Assets		As at 31st March, 2023 (₹ in Crores)	
Advance to Suppliers			1.20
Balances with Government Authorities			3.68
Prepaid Expenses			0.79
Advances to Employees			0.01
	Total		5.68
11 Other Equity		As at 31st March, 2023 (₹ in Crores)	
Retained Earnings			
Opening Balance			2,049.33
Add : Profit for the year			254.61
Add/(Less): Other Comprehensive Income arising from remeasurement of Defined Benefit Plans			(0.02)
	Closing Balance of Retained Earnings		2,303.92
12 Borrowings		Non-Current	Current
		As at 31st March, 2023 (₹ in Crores)	As at 31st March, 2023 (₹ in Crores)
Unsecured			
From Related Party		363.08	-
	Total	363.08	-
13 Provisions		Non-Current	Current
		As at 31st March, 2023 (₹ in Crores)	As at 31st March, 2023 (₹ in Crores)
Net Employee Defined benefit liabilities			
Provision for Gratuity		0.75	0.11
Provision for Compensated Absences		0.44	0.17
		1.19	0.28
Provision for Stamp Duty		-	12.85
	Total	1.19	13.13
14 Deferred Tax Liabilities		As at 31st March, 2023 (₹ in Crores)	
Deferred Tax Liabilities (Net)			386.88
	Deferred Tax Liabilities		386.88



15 Borrowings		As at 31st March, 2023 (₹ in Crores)
Secured Borrowings		
From Bank		49.48
Cash Credit		49.48
Total		49.48
16 Trade Payables		As at 31st March, 2023 (₹ in Crores)
Trade Payable		
-Total outstanding dues of creditor micro enterprise and small enterprise		1.03
-Total outstanding dues of creditor other than micro enterprise and small enterprise		53.68
Total		54.71
17 Other Financial Liabilities		As at 31st March, 2023 (₹ in Crores)
Payable on purchase of property, plant and equipment		7.30
Refundable to customers on truing up		112.83
Other Payables		1.75
Total		121.88
18 Other Current Liabilities		As at 31st March, 2023 (₹ in Crores)
Statutory liabilities		0.77
Advance from Customers		5.04
Other Payables		0.43
Total		6.24



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

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 Energy Solutions

19 Revenue from Operations		For the year ended 31st March, 2023 (₹ in Crores)
Income from Transmission Line		654.42
Total		654.42
20 Other Income		For the year ended 31st March, 2023 (₹ in Crores)
Interest Income		3.40
Sale of Scrap & Inventory		1.56
Service Income		0.03
Line modification Service Charges		0.36
Insurance Claim received (Net of loss on discard asset of ₹ 4.77 Cr (P.Y. ₹4.07 Cr))		0.17
Total		5.52
21 Operating expenses		For the year ended 31st March, 2023 (₹ in Crores)
Repairs and Maintenance		
- Plant & Equipment		26.96
- Building		0.04
- Others		0.07
Consumption of Stores and spares		5.28
Total		32.35
22 Employee Benefits Expense		For the year ended 31st March, 2023 (₹ in Crores)
Salaries, Wages and Bonus		5.47
Contribution to Provident and Other Funds		0.45
Staff Welfare Expenses		0.47
Total		6.39
23 Finance costs		For the year ended 31st March, 2023 (₹ in Crores)
Interest Expense		
-Long Term Loan		41.95
-Working Capital Loan		3.59
-Arrears to Regulator		17.72
Bank Charges & Other Borrowing Costs		0.05
Total		63.31



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines
Notes to Annexures

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		For the year ended 31st March, 2023 (₹ in Crores)
24 Other Expenses		
Short Term Lease Rental		0.39
Rates and Taxes		0.02
Legal & Professional Expenses		8.19
Payment to Auditors (Refer Note Below)		0.14
Communication Expenses		0.26
Travelling & Conveyance Expenses		1.89
Loss on sale of fixed Assets		0.18
Corporate Social Responsibility expenses		5.73
Electricity Expenses		4.24
Miscellaneous Expenses		3.14
Total		24.18

(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)

		For the year ended 31st March, 2023 (₹ in Crores)
Payment to auditors		
As auditor:		
Statutory Audit Fees (Including GST)		0.13
Others		0.01
		0.14

		For the year ended 31st March, 2023 (₹ in Crores)
25 Income Tax		
Tax Expenses		
Current Income Tax Charge (MAT)		53.91
Deferred Tax		4.11
Total		58.02



ADANI TRANSMISSION (INDIA) LIMITED
Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra – Sami – Dehgam Transmission Lines

Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

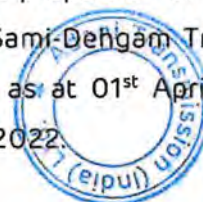
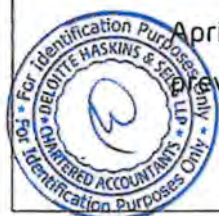
Notes to Annexure-1

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami- Dehgam Transmission Lines of Central Electrical Regulatory Commission Licensed Area (including telecom business)– Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2023.

The above Transmission lines' trial balance's forms part of the audited financial statements of the Company for the year ended and as at 31st March 2023 which have been prepared in accordance with Indian Accounting Standards (Ind AS) as notified under the Companies (Indian Accounting Standards) Rules, 2015, as amended read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.

2. The assets and liabilities of the Company that are directly allocable/identifiable 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line are allocated by the Management to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line. In respect of the following assets and liabilities the same have been allocated by the Management as indicated below, no specific audit procedures have been performed by the Auditors and such basis of allocation has been relied upon by the Auditor:

- a. Long term borrowings, Short term borrowings and Interest Accrued but not due on borrowing have been allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Debt of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line as at 01st April 2022 to the total Debt of the Company as at 01st April 2022 based on auditor's previous year certificate dated 22nd September 2022.



- b. Closing balance of Working Capital Loan have been equally allocated to 400 KV Tiroda Warora Transmission line (50%) and 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra – Sami – Dehgam Transmission Lines (50%), which has been certified by the Management.
- c. Provision for Gratuity and Compensated absences forming part of Long Term and Short-Term provisions have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Employee expenditure ratio as determined for the year ended 31st March 2023 to the total Employee Expenditure of the Company as at 31st March 2023.
- d. Employee loans/advances are directly allocable/identifiable to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line are allocated by the Management to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line and common Employee loans/advances are allocated in the ratio of revenue of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- e. Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2022 and 31st March 2023.

Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recovered when deferred tax liability forms a part of current tax.

Deferred Asset recoverable/adjustable is the balance between the deferred Asset recoverable/adjustable as at 31st March 2022 and 31st March 2023. These are calculated based on WDV of block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total WDV of block of the Company.

- f. Income tax assets/liabilities are allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of profit before tax for the respective years of the transmission line to the total Profit before tax of the Company for that year. Income Tax Refunds received during the year are adjusted based on the actual receivable pertaining respective businesses.



- g. Advance from Customer under Other Current Liabilities, refer to line modification work, hence allocated under respective transmission lines.
 - h. Refundable to customers on truing up under Other Current Liabilities has been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.
 - i. Cash & Cash Equivalent have been allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
 - j. Prepaid expenditure has been allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on insurance expenditure allocated to the line.
 - k. Loans given to related parties have been allocated in the ratio of opening balance of retained earnings of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total opening balance of retained earnings of the Company as at 1st April 2022.
 - l. Common Trade payables are allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on the Turnover ratio or employee expenditure ratio, as the case maybe.
3. Head Office Account is a balancing figure between total assets, total liabilities and total other equity and is adjusted against Loan to Holding Company.
4. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post issuance of independent auditor's report on the audit of the financial statements dated 29th May 2023.



ADANI TRANSMISSION (INDIA) LIMITED ("the Company")
Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra – Sami – Dehgam Transmission Lines

Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

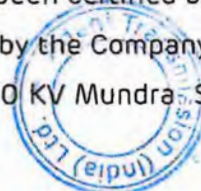
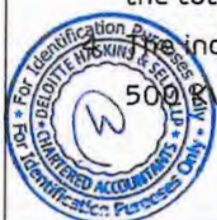
Notes to Annexure-2

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line of Central Electrical Regulatory Commission Licensed Area (including telecom business) – Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2023.

The above Transmission lines' trial balance forms part of the audited financial statements of the Company for the year ended and as at 31st March 2023 which have been prepared in accordance with Indian Accounting Standard (Ind AS) as notified under the Companies (Indian Accounting Standards) Rules, 2015, as amended read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.

2. Depreciation and Amortisation Expenditure are directly allocable/identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Gross fixed asset block of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.
3. Operating Expenses, O&M Agreement charges/ consumption of stores and spares / others, are directly allocable/identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on separate contract executed/Profit Center for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line. While common operating expenditure is allocated to 500 KV HVDC Mundra Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of revenue of the total revenue of the Company, which has been certified by Management.

The income earned and expenditure incurred by the Company that are directly identifiable to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line

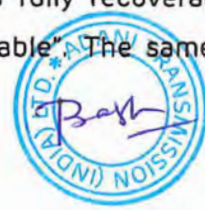
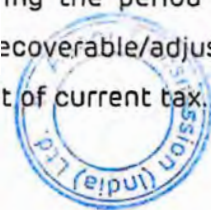


is allocated by the Management and relied upon by the auditors. In respect of the following classes of Income and expenditure, the same have been allocated by the Management as indicated below, no specific audit procedures have been performed by the Auditors and such basis of allocation has been relied upon by the Auditor:

- a. Bifurcation of Employee Benefit Expenses between Salaries, Bonus and Other Allowance has been done by Management based on SAP report and Common Employee Expenses are allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- b. Interest on Long term borrowing and Short term borrowing forming part of Finance Cost have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Debt as at 01st April 2022 to the total Debt of the Company as at 01st April 2022 based on auditor's previous year certificate dated 22nd September, 2022.
- c. Interest on Working Capital Loan have been equally allocated to 400 KV Tiroda Warora Transmission line (50%) and 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra – Sami – Dehgam Transmission Lines (50%), which has been certified by the Management.
- d. Audit Fees is allocated to in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- e. Corporate Social Responsibility (CSR) expenditure is allocated 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on profit of respective business (before CSR).
- f. Tax expenses are allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of profit before tax of the respective business to the total Profit before tax of the Company.
- g. Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2022 and 31st March 2023.

Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income.

Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recovered when deferred tax liability forms a part of current tax.



Deferred Asset recoverable/adjustable is the balance between the deferred Asset recoverable/adjustable as at 31st March 2022 and 31st March 2023. These are calculated based on WDV of block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Line to the total WDV of block of the Company.

- h. Corporate Expenses have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line, in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company, which has been certified by Management.
5. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post our issuance of independent auditor's report on the audit of the financial statements dated 29th May 2023.



ADANI TRANSMISSION (INDIA) LIMITED**Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines****Notes to Annexure-3**

1. The cash flow has been prepared based on the balance sheets and statements of profit and loss of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Lines of Central Electrical Regulatory Commission Licensed Area as at and for the years ended 31st March 2023 and 31st March 2022.
2. Head Office Account is a balancing figure between total assets, total liabilities and total other equity and is adjusted against Loan to Holding Company and difference of Head Office Account between two balance sheets have been considered as financing activities.



Walker Chandio & Co LLP

Walker Chandio & Co LLP

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Gujarat, India

Independent Auditor's Certificate on Balance Sheet ('Annexure 1'), Statement of Profit and Loss ('Annexure 2') and Statement of Cash Flows ('Annexure 3') of 500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines ('CERC lines') as at and for the year ended 31 March 2024

To
The Board of Directors
Adani Transmission (India) Limited
Adani Corporate House,
Shantigram, Near Vaishnav Devi Circle
S.G. Highway, Khodiyar,
Ahmedabad -382421
Gujarat

1. This certificate is issued in accordance with the terms of our engagement letter dated 5 September 2024 with Adani Transmission (India) Limited (hereinafter 'the Company').
2. The accompanying Balance Sheet ("Annexure 1"), Statement of Profit and Loss ("Annexure 2") and Statement of Cash Flows ("Annexure 3") including the related schedule and notes ("the Statements") of CERC lines forming part of the Company as at and for the year ended 31 March 2024 has been prepared by the Company's management in accordance with the requirements of tariff filing forms (Transmission & Communication System) for determination of Tariff issued by Central Electricity Regulatory Commission ("CERC") (hereinafter referred as "CERC regulations"). We have initialed the Statements for identification purposes only.

Management's Responsibility for the Statements

3. The preparation of the Statements, including the preparation and maintenance of all accounting and other relevant supporting records and documents, is solely the responsibility of the management of the Company. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the Statements and applying an appropriate basis of preparation; and making estimates that are reasonable in the circumstances.
4. The Management is also responsible for ensuring that the Company complies with the requirements of the CERC regulations and provides all relevant information to CERC.

Auditor's Responsibility

5. Pursuant to the requirements stated in paragraph 2 above, our responsibility is to express reasonable assurance in the form of an opinion as to whether the particulars contained in the Statements have been accurately extracted from the audited financial statements, trial balance of CERC lines, underlying books of accounts and other records and documents maintained by the Company as at and for the year ended 31 March 2024 and the computations thereof are arithmetically accurate.
6. The audited financial statements referred to in paragraph 5 above for the year ended 31 March 2024, have been audited by us, on which we issued an unmodified audit opinion vide our report dated 29 April 2024. Our audits of these financial statements were conducted in accordance with the Standards on Auditing specified under Section 143(10) of the Companies Act, 2013 and other applicable authoritative pronouncements issued by the Institute of Chartered Accountants of India (the "ICAI"). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. Such audit was not planned and performed in connection

Chartered Accountants

Offices in Ahmedabad, Bengaluru, Chandigarh, Chennai, Dehradun, Gurugram, Hyderabad, Kolkata, Mumbai, New Delhi, Noida and Pune



Walker Chandio & Co LLP is registered with limited liability with identification number AAC 2085 and has its registered office at L-41, Connaught Circus, Outer Circle, New Delhi, 110001, India



Walker Chandiok & Co LLP

with any transactions to identify matters that maybe of potential interest to third parties.

7. We conducted our examination, of the Statements in accordance with the Guidance Note on Reports or Certificates for Special Purposes (Revised 2016) ('Guidance Note'), issued by the ICAI. The Guidance Note requires that we comply with the ethical requirements of the Code of Ethics issued by ICAI.
8. We have complied with the relevant applicable requirements of the Standard on Quality Control (SQC) 1, Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Services Engagements issued by ICAI.

Opinion

9. Based on our examination as above, evidences obtained, and the information and explanations along with the representations provided by the Management and subject to the notes to the Statements, in our opinion the particulars forming part of Annexure 1, Annexure 2 and Annexure 3 including related schedules to the Statements have been accurately extracted from the audited financial statements, trial balance of CERC lines, underlying books of accounts and other records and documents maintained by the Company as at and for the year ended 31 March 2024, and that the computation(s) thereof is arithmetically accurate.

Restriction on distribution or use

10. Our work was performed solely to assist you in meeting your responsibilities in relation to your compliance with the CERC regulations. Our obligations in respect of this certificate are entirely separate from, and our responsibility and liability is in no way changed by, any other role we may have as statutory auditors of the Company or otherwise. Nothing in this certificate, nor anything said or done in the course of or in connection with the services that are the subject of this certificate, will extend any duty of care we may have in our capacity as statutory auditors of the Company.
11. The certificate is addressed to and provided to the Board of Directors of the Company solely for the purpose of enabling it to comply with the requirements of the CERC regulations which requires it to submit the certificate with the accompanying Statements to the CERC, and should not be used, referred to or distributed for any other purpose or to any other party without our prior written consent. Accordingly, we do not accept or assume any liability or any duty of care for any other purpose or to any other party to whom this certificate is shown or into whose hands it may come without our prior consent in writing.

For **Walker Chandiok & Co LLP**

Chartered Accountants

Firm Registration No: 001076N/N500013



Neeraj Goel

Partner

Membership No.: 99514

UDIN: 24099514BKCMZU6839

Place: Gurugram

Date: 5 September 2024



Annexure 1

ADANI TRANSMISSION (INDIA) LIMITED

500 KV HVDC Mundra To Mahindargarh & 400 KV Mundra-Sami-Dehgam
Transmission Lines

Balance Sheet as at 31st March, 2024

adani
SUSTAINABLE ENERGY

(₹ in Crores)

Particulars	Notes	As at 31st March, 2024
ASSETS		
Non-Current Assets		
Property, Plant and Equipment	1	2,160.33
Right-of-Use Assets	1A	5.80
Intangible Assets	1B	2.63
Capital Work-In-Progress		27.75
Income Tax Assets (Net)	2	14.48
Other Non-current Assets	3	395.71
Total Non-Current Assets		2,606.70
Current Assets		
Inventories	4	33.09
Financial Assets		
(i) Trade Receivables	5	366.34
(ii) Cash and Cash Equivalents	6	1.30
(iii) Loans	7	0.12
(iv) Other Financial Assets	8	0.89
Other Current Assets	9	15.02
Total Current Assets		418.76
Total Assets		3,025.46
EQUITY AND LIABILITIES		
Equity		
Head Office Account		2,041.18
Total Equity		2,041.18
Liabilities		
Non-Current Liabilities		
Financial Liabilities		
(i) Borrowings	10	407.24
Provisions	11	2.14
Deferred Tax Liabilities (Net)	12	384.28
Total Non-Current Liabilities		793.66
Current Liabilities		
Financial Liabilities		
(i) Borrowings	13	1.19
(ii) Trade Payables		
- Total outstanding dues of micro enterprises and small enterprises	14	0.73
- Total outstanding dues of creditors other than micro enterprises and small enterprises		53.66
(iii) Other Financial Liabilities	15	106.51
Provisions	11	13.19
Other Current Liabilities	16	15.34
Total Current Liabilities		190.62
Total Liabilities		984.28
Total Equity and Liabilities		3,025.46

See accompanying notes forming part of the financial statements

ADANI TRANSMISSION (INDIA) LIMITED

Rohit Soni

Whole Time Director

Place : Ahmedabad

Date : 05/09/24



Annexure 2

ADANI TRANSMISSION (INDIA) LIMITED

500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines

Statement of Profit and Loss for the year ended 31st March, 2024

adani
Energy Solutions

(` in Crores)

Particulars	Notes	For the year ended 31st March, 2024
Income		
Revenue from Operations	17	608.15
Other Income	18	19.82
Total Income		627.97
Expenses		
Operating Expenses	19	37.96
Employee Benefits Expense	20	9.37
Finance Costs	21	52.23
Depreciation and Amortisation Expenses	1, 1A & 1B	226.16
Other Expenses	22	24.66
Total Expenses		350.38
Profit Before Tax and Deferred Asset recoverable / adjustable for the year		277.59
Tax Expense:	23	
Current Tax		48.49
Deferred Tax		(2.60)
Total Tax Expenses		45.89
Profit After Tax but before Deferred Asset recoverable / adjustable for the year		231.70
Deferred Asset recoverable / adjustable		(2.60)
Profit After Tax for the year		229.10
Other Comprehensive Income/(Loss)		
Items that will not be reclassified to Profit or Loss		
- Remeasurement of the Defined Benefit Plans		(0.07)
- Tax relating to items that will not be reclassified to Profit or Loss		-
Total Other Comprehensive Income / (Loss) for the year (Net of Tax)		(0.07)
Total Comprehensive Income for the year		229.03

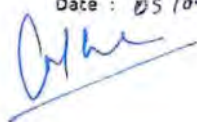
See accompanying notes forming part of the financial statements

ADANI TRANSMISSION (INDIA) LIMITED


Rohit Soni
 Whole Time Director


Place : Ahmedabad

Date : 05/09/24



Annexure 3

ADANI TRANSMISSION (INDIA) LIMITED

500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Lines

Statement of Cash Flows for the year ended 31st March, 2024

adani
SUSTAINABLE ENERGY

		(₹ in Crores)
Particulars		For the year ended 31st March, 2024
A. Cash flows from operating activities		
Profit before tax		277.59
Adjustments for:		
Depreciation and Amortisation Expense		226.16
Finance Costs		52.23
Loss on scrapping of Fixed Asset		0.04
Unclaimed Liabilities / Excess provision written back		(0.34)
Interest income		(17.90)
Operating profit before working capital changes		537.28
Movement in Working Capital:		
(Increase) / Decrease in Assets :		
Loans, other financial assets and other assets		(9.15)
Inventories		(0.05)
Trade Receivables		(30.36)
Increase / (Decrease) in Liabilities :		
Other financial liabilities, other liabilities and provisions		(1.38)
Trade Payables		0.52
Cash generated from operations		496.86
Taxes paid (net of Refunds)		(42.89)
Net cash generated from operating activities (A)		453.97
B. Cash flows from investing activities		
Payment for acquisition of property plant and equipment (including capital advance and CWIP)		(59.94)
Interest received		17.90
Loan to Employee		(0.05)
Net cash from/(used in) investing activities (B)		(22.09)
C. Cash flows from financing activities		
Repayment of Long-term borrowings		(3.57)
Increase/(Decrease) in HO Account balance		(380.19)
Proceeds/ (Repayment) from Short-term borrowings(Net)		(48.29)
Finance Cost paid		(4.40)
Net cash used in financing activities (C)		(436.55)
Net Decrease in cash and cash equivalents (A+B+C)		(4.67)
Cash and cash equivalents at the beginning of the year		5.97
Cash and cash equivalents at the end of the year (Refer note 6)		1.30
(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)		
Cash and Cash Equivalents Includes		As at
		31st March, 2024
Balances with Banks		
-In Current Accounts		1.30
Total Cash and Cash Equivalents at the end of the year		1.30

See accompanying notes forming part of the financial statements

ADANI TRANSMISSION (INDIA) LIMITED

Rohit Soni
Whole Time DirectorPlace : Ahmedabad
Date : 05/09/24

1. Property, Plant and Equipment

Description of Assets	Tangible Assets							Total
	Land (Free hold)	Building	Plant & Equipment	Furniture and Fixtures	Office Equipment	Computer Equipment	Vehicles	
I. Gross carrying value								
Balance as at 1st April, 2023	57.88	80.53	3,973.41	0.98	3.15	3.41	0.14	4,119.50
Additions during the year	2.46	1.09	16.14	0.05	0.87	1.64	(0.01)	21.65
Disposals during the year	-	-	-	-	(0.07)	-	-	(0.08)
Balance as at 31st March, 2024	60.34	81.62	3,989.55	1.03	3.95	4.45	0.13	4,141.07
II. Accumulated Depreciation								
Balance as at 1st April, 2023	-	22.03	1,731.75	0.48	0.39	1.05	0.05	1,755.75
Depreciation for the year	-	2.78	221.45	0.07	0.22	0.50	0.01	225.03
Other Adjustments	-	-	-	-	(0.05)	-	(0.01)	(0.04)
Balance as at 31st March, 2024	-	24.81	1,953.20	0.55	0.56	1.55	0.05	1,980.74
Net Carrying Value								
Balance as at 31st March, 2024	60.34	56.81	2,036.35	0.48	3.37	2.90	0.08	2,160.35

(Figures below ₹ 50,000.00 denoted as ₹ 0.00 Crs)



Notes to Annexures

1A : Right-of-Use Assets (₹ in Crores)

Particulars	Right-of-Use Assets	
	Leasehold Land	Total
Gross carrying value		
Balance as at 1st April, 2023	11.77	11.77
Additions during the year	-	-
Balance as at 31st March, 2024	11.77	11.77
Accumulated Amortisation		
Balance as at 1st April, 2023	5.37	4.78
Amortisation Charge during the year	0.50	0.50
Balance as at 31st March, 2024	5.97	5.97
Net Carrying Value as at 31st March 2024	5.80	5.80

1B : Intangible Assets (₹ in Crores)

Particulars	Intangible Assets	
	Computer Software	Total
Gross carrying value		
Balance as at 1st April, 2023	2.47	2.47
Additions during the year	1.79	1.79
Balance as at 31st March, 2024	4.26	4.26
Accumulated Amortisation		
Balance as at 1st April, 2023	1.10	1.10
Amortisation Charge during the year	0.53	0.53
Balance as at 31st March, 2024	1.63	1.63
Balance as at 31st March, 2024	2.63	2.63



		As at 31st March, 2024 (₹ in Crores)
2 Income Tax Assets (Net)		
Advance income tax (net)		14.48
Total		14.48
3 Other Non-current Assets		
		As at 31st March, 2024 (₹ in Crores)
a) Capital Advances		11.43
- Considered Good		11.43
b) Deferred Asset recoverable / adjustable		384.28
Total = a+b		395.71
4 Inventories (Valued at lower of Cost and Net Realisable Value)		
		As at 31st March, 2024 (₹ in Crores)
Stores & spares		35.09
Total		35.09
5 Trade Receivables (Unsecured, otherwise stated)		
		As at 31st March, 2024 (₹ in Crores)
Unsecured, Considered Good		366.34
Total		366.34
6 Cash and Cash Equivalents		
		As at 31st March, 2024 (₹ in Crores)
Balances with banks in current accounts		1.30
Total		1.30
7 Loans - At Amortised Cost		
		As at 31st March, 2024 (₹ in Crores)
Loans to Employees		0.12
Total		0.12
8 Other Financial Assets		
		As at 31st March, 2024 (₹ in Crores)
Security deposits		0.89
Total		0.89



9 Other Current Assets		As at 31st March, 2024 (₹ in Crores)	
Advance to Suppliers			0.78
Balances with Government Authorities			4.51
Prepaid Expenses			9.51
Advances to Employees			0.02
	Total		15.02
10 Other Equity		As at 31st March, 2024 (₹ in Crores)	
Head Office Account			(491.77)
Retained Earnings			
Opening Balance			2,303.92
Add : Profit for the year			229.10
Add/(Less): Other Comprehensive Income arising from remeasurement of Defined Benefit Plans			(0.07)
Net Head Office Account Balance			2,041.18
10 Borrowings		Non-Current	Current
		As at 31st March, 2024 (₹ in Crores)	As at 31st March, 2024 (₹ in Crores)
Unsecured			
From Related Party		407.24	-
	Total	407.24	-
11 Provisions		Non-Current	Current
		As at 31st March, 2024 (₹ in Crores)	As at 31st March, 2024 (₹ in Crores)
Net Employee Defined benefit liabilities			
Provision for Gratuity		1.41	0.08
Provision for Compensated Absences		0.73	0.26
		2.14	0.34
Provision for Stamp Duty		-	12.85
	Total	2.14	13.19
12 Deferred Tax Liabilities		As at 31st March, 2024 (₹ in Crores)	
Deferred Tax Liabilities (Net)			384.28
Deferred Tax Liabilities	Total		384.28



13 Borrowings

As at
31st March, 2024
(₹ in Crores)

Secured Borrowings

From Bank

Cash Credit

Total

1.19

1.19

14 Trade Payables

As at
31st March, 2024
(₹ in Crores)

Trade Payable

-Total outstanding dues of creditor micro enterprise and small enterprise

-Total outstanding dues of creditor other than micro enterprise and small enterprise

Total

0.73

53.66

54.39

15 Other Financial Liabilities

As at
31st March, 2024
(₹ in Crores)

Payable on purchase of property, plant and equipment

Refundable to customers on trying up

Other Payables

Total

3.35

101.38

1.78

106.51

16 Other Current Liabilities

As at
31st March, 2024
(₹ in Crores)

Statutory liabilities

Advance from Customers

Total

1.11

14.23

15.34



ADANI TRANSMISSION (INDIA) LIMITED
500 KV HVDC Mundra To Mahbubnagar & 400 KV Mundra-Sami-Dangam Transmission
Lines



Notes to Annexures

		For the year ended 31st March, 2024 (₹ in Crores)
17 Revenue from Operations		
Income from Transmission Line		608.15
Total		608.15
18 Other Income		
Sale of Scrap & Inventory		1.02
Uncollected Liabilities / Excess provision written back		0.84
Service Income		0.05
Delayed Payment Charges		17.90
Line modification Service Charges		0.01
Total		19.82
19 Operating expenses		
Repairs and Maintenance		
- Plant & Equipment		28.37
- Building		0.05
Consumption of Stores and spares		9.54
Total		37.96
20 Employee Benefits Expense		
Salaries, Wages and Bonus		8.47
Contribution to Provident and Other Funds		0.68
Staff Welfare Expenses		0.22
Total		9.37
21 Finance costs		
Interest Expense		
- Long Term Loan		47.85
- Working Capital Loan		4.31
Bank Charges & Other Borrowing Costs		0.07
Total		52.23



		For the year ended 31st March, 2024 (₹ in Crores)
22 Other Expenses		
Short Term Lease Rental		2.04
Rates and Taxes		0.02
Legal & Professional Expenses		6.03
Directors' Sitting Fees		0.00
Payment to Auditors (Refer Note Below)		0.11
Communication Expenses		0.24
Travelling & Conveyance Expenses		1.95
Loss on sale of fixed Assets		0.04
Corporate Social Responsibility expenses		5.49
Electricity Expenses		3.57
Miscellaneous Expenses		5.17
Total		24.66
		For the year ended 31st March, 2024 (₹ in Crores)
Payment to auditors		
As auditor:		
Statutory Audit Fees (including GST)		0.11
Others		-
		0.11
23 Income Tax		For the year ended 31st March, 2024 (₹ in Crores)
Tax Expenses		
Current Income Tax Charge (MAT)		48.49
Deferred Tax		(2.60)
Total		45.89



ADANI TRANSMISSION (INDIA) LIMITED

Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines

Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

Notes to Annexure-1

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami- Dehgam Transmission Lines of Central Electrical Regulatory Commission Licensed Area (including telecom business)- Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2024.

The above Transmission lines' trial balance's forms part of the audited financial statements of the Company for the year ended and as at 31st March 2024 which have been prepared in accordance with Indian Accounting Standards (Ind AS) as notified under the Companies (Indian Accounting Standards) Rules, 2015, as amended read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.

2. The assets and liabilities of the Company that are directly allocable/identifiable 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line are allocated by the Management to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line. In respect of the following assets and liabilities the same have been allocated by the Management as indicated below, no specific audit procedures have been performed by the Auditors and such basis of allocation has been relied upon by the Auditor:
 - a. Long term borrowings and Interest Accrued but not due on borrowing have been allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Debt of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line as at 01st April 2023 to the total Debt of the Company as at 01st April 2023 based on auditor's previous year certificate dated 27th October 2023.



- b. Closing balance of Working Capital Loan have been equally allocated to 400 KV Tiroda Warora Transmission line (50%) and 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines (50%), which has been certified by the Management.
- c. Provision for Gratuity and Compensated absences forming part of Long Term and Short-Term provisions have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Employee expenditure ratio as determined for the year ended 31st March 2024 to the total Employee Expenditure of the Company as at 31st March 2024.
- d. Employee loans/advances are directly allocable/identifiable to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line are allocated by the Management to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line and common Employee loans/advances are allocated in the ratio of revenue of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
- e. Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2023 and 31st March 2024.

Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recovered when deferred tax liability forms a part of current tax.

Deferred Asset recoverable/adjustable is the balance between the deferred Asset recoverable/adjustable as at 31st March 2023 and 31st March 2024. These are calculated based on WDV of block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total WDV of block of the Company.

- f. Income tax assets/liabilities are allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of profit before tax for the respective years of the transmission line to the total Profit before tax of the Company for that year. Income Tax Refunds received during the year are adjusted based on the actual receivable pertaining respective businesses.



- g. Advance from Customer under Other Current Liabilities, refer to line modification work, hence allocated under respective transmission lines.
 - h. Refundable to customers on truing up under Other Current Liabilities has been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.
 - i. Cash & Cash Equivalent have been allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
 - j. Prepaid expenditure has been allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on insurance expenditure allocated to the line.
 - k. Common Trade payables are allocated to the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on the Turnover ratio or employee expenditure ratio, as the case may be.
3. Head Office Account is a balancing figure between total assets, total liabilities and total other equity.
4. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post issuance of independent auditor's report on the audit of the financial statements dated 29th April, 2024.



ADANI TRANSMISSION (INDIA) LIMITED ("the Company")

Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra – Sami – Dehgam Transmission Lines

Adani Transmission (India) Limited, was granted a transmission licence for operating transmission assets by the Central Electricity Regulatory Commission. In pursuance of the said License, Adani Transmission (India) Limited has established various transmission assets, including Dark Fibre Cable (OPGW), tower space for telecom passive infra installation.

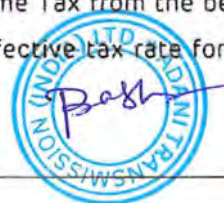
Notes to Annexure-2

1. The above information has been extracted from the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line of Central Electrical Regulatory Commission Licensed Area (including telecom business) – Transmission trial balance and other relevant records of the Company as at and for the year ended 31st March 2024.
The above Transmission lines' trial balance forms part of the audited financial statements of the Company for the year ended and as at 31st March 2024 which have been prepared in accordance with Indian Accounting Standard (Ind AS) as notified under the Companies (Indian Accounting Standards) Rules, 2015, as amended read with Section 133 of the Companies Act, 2013, the audit procedures have been done on the financial statements as a whole.
2. Depreciation and Amortisation Expenditure are directly allocable/identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on Gross fixed asset block of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.
3. a. Operating Expenses, O&M Agreement charges/ consumption of stores and spares / others, are directly allocable/identifiable to a 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on separate contract executed/Profit Center for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line.



- b. While common operating expenditure other than point (a) specified is allocated to 500 KV HVDC Mundra Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of revenue of the total revenue of the Company, which has been certified by Management.
4. The income earned and expenditure incurred by the Company that are directly identifiable to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line is allocated by the Management and relied upon by the auditors. In respect of the following classes of Income and expenditure, the same have been allocated by the Management as indicated below, no specific audit procedures have been performed by the Auditors and such basis of allocation has been relied upon by the Auditor:
- Bifurcation of Employee Benefit Expenses between Salaries, Bonus and Other Allowance has been done by Management based on SAP report and Common Employee Expenses are allocated in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
 - Interest on Long term borrowing forming part of Finance Cost have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the proportion of the Debt as at 01st April 2023 to the total Debt of the Company as at 01st April 2023 based on auditor's previous year certificate dated 27th October, 2023.
 - Interest on Working Capital Loan have been equally allocated to 400 KV Tiroda Warora Transmission line (50%) and 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra – Sami – Dehgam Transmission Lines (50%), which has been certified by the Management.
 - Audit Fees is allocated to in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company.
 - Corporate Social Responsibility (CSR) expenditure is allocated 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line based on profit of respective business (before CSR).
 - Tax expenses are allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line in the ratio of profit before tax of the respective business to the total Profit before tax of the Company.
 - Deferred tax is the adjusting balance between the deferred tax asset/liability as at 31st March 2023 and 31st March 2024.

Regulatory tariff norms provide the recovery of Income Tax from the beneficiaries by way of grossing up the return of equity based on the effective tax rate for the financial year



shall be based on the actual tax paid during the year on the transmission income. Accordingly, deferred tax liability provided during the period is fully recoverable from beneficiaries and known as "Deferred Asset Recoverable/adjustable". The same will be recovered when deferred tax liability forms a part of current tax.

Deferred Asset recoverable/adjustable is the balance between the deferred Asset recoverable/adjustable as at 31st March 2023 and 31st March 2024. These are calculated based on WDV of block of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra-Sami-Dehgam Transmission Line to the total WDV of block of the Company.

- h. Corporate Expenses have been allocated to 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line, in the ratio of revenue of the 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Line to the total revenue of the Company, which has been certified by Management.
5. The above Annexure does not consider effects of any subsequent events if any, which would have occurred post our issuance of independent auditor's report on the audit of the financial statements dated 29th April 2024.



ADANI TRANSMISSION (INDIA) LIMITED**Notes to Accounting Statement for 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra - Sami - Dehgam Transmission Lines****Notes to Annexure-3**

1. The cash flow has been prepared based on the balance sheets and statements of profit and loss of 500 KV HVDC Mundra to Mohindergarh & 400 KV Mundra- Sami-Dehgam Transmission Lines of Central Electrical Regulatory Commission Licensed Area as at and for the years ended 31st March 2024 and 31st March 2023.
2. Head Office Account is a balancing figure between total assets, total liabilities and total other equity.



Walker Chandiok & Co LLP

Walker Chandiok & Co LLP

RE 11, 1st Floor,
Near Vikramnagar, Iscon,
Ambli Road, Ambli,
Ahmedabad - 380 058
Gujarat, India

Independent Auditor's Certificate on Statement of rate of interest on actual long-term loan for the financial years ended 31 March 2024, 31 March 2023, 31 March 2022, 31 March 2021 and 31 March 2020

To

The Board of Directors
Adani Transmission India Limited
Adani Corporate House,
Shantigram, Near Vaishno Devi Circle,
S.G.Highway, Khodiyar,
Ahmedabad - 382421, Gujarat, India

1. This certificate is issued in accordance with the terms of our engagement letter dated 6 November 2024 with Adani Transmission India Limited (the 'Company').
2. The accompanying statement of rate of interest on actual long-term loan for the financial years ended 31 March 2024, 31 March 2023, 31 March 2022, 31 March 2021 and 31 March 2020 ('the Statement') has been prepared by the Company's management in accordance with the requirements of tariff filing norms for determination of tariff issued by Central Electricity Regulatory Commission ('CERC') (hereinafter referred as "CERC Regulations"). We have initialled the Statement for identification purposes only.

Management's Responsibility for the Statement

3. The preparation of the Statement, including the preparation and maintenance of all accounting and other relevant supporting records and documents, is solely the responsibility of the management of the Company. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and presentation of the Statement and applying an appropriate basis of preparation; and making estimates that are reasonable in the circumstances.
4. The Management is also responsible for ensuring that the Company complies with the CERC requirements and provides all relevant information to the CERC.

Auditor's Responsibility

5. Pursuant to the requirements stated in paragraph 2 above, our responsibility is to express limited assurance that nothing has come to our attention that cause us to believe that particulars in the Statement have not been accurately extracted from the audited financial statements, underlying books of accounts and other records and documents maintained by the Company for the years ended 31 March 2024, 31 March 2023, 31 March 2022, 31 March 2021 and 31 March 2020 and the computation thereof is arithmetically accurate.
6. The audited financial statements, referred to in paragraph 5 above for the year ended 31 March 2024 have been audited by us, on which we have issued an unmodified audit opinion vide our audit report dated 29 April 2024. The audited financial statements of the Company for the years ended 31 March 2023, 31 March 2022, 31 March 2021 and 31 March 2020 have been audited by predecessor auditor, Deloitte Haskins & Sells LLP, who have expressed an unmodified audit opinion vide their audit reports dated 29 May 2023, 2 May 2022, 5 May 2021 and 8 May 2020 respectively. The audit of these financial statements were conducted in accordance with the Standards on Auditing specified under Section

Chartered Accountants

Offices in Ahmedabad, Bengaluru, Chandigarh, Chennai, Dehradun, Gurugram, Hyderabad, Kochi, Kolkata, Mumbai, New Delhi, Noida and Pune



Walker Chandiok & Co LLP is registered with limited liability with identification number AAC-2085 and has its registered office at L-41, Connaught Circus, Outer Circle, New Delhi, 110001, India

Walker Chandio & Co LLP

143(10) of the Companies Act, 2013 and other applicable authoritative pronouncements issued by the Institute of Chartered Accountants of India (the 'ICAI'). Those Standards require that the auditor plans and performs the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement.

7. We conducted our examination of the Statement in accordance with the Guidance Note on Reports or Certificates for Special Purposes (Revised 2016) (the 'Guidance Note') issued by the Institute of Chartered Accountants of India (the 'ICAI'). The Guidance Note requires that we comply with the ethical requirements of the Code of Ethics, issued by the ICAI.
8. We have complied with the relevant applicable requirements of the Standard of Quality Control (SQC) 1, 'Quality Control for Firms that Perform Audits and Reviews of Historical Financial Information, and Other Assurance and Related Services Engagements', issued by the ICAI.
9. The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement; and consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had a reasonable assurance engagement been performed. The procedures selected depend on the auditor's judgment, including the assessment of areas where a material misstatement of the subject matter information is likely to arise. We have performed the following procedures in relation to the Statement.
 - a) Obtained the audited financial statement and underlying books of accounts for the years ended 31 March 2024, 31 March 2023, 31 March 2022, 31 March 2021 and 31 March 2020.
 - b) Obtained agreements executed between the Company and Adani Transmission Step-One Limited or Adani Energy Solutions Limited for loans taken by the Company.
 - c) Tested the numbers included in the Statement from the audited financial statements and underlying books of accounts and other records and documents maintained by the Company and recomputed the weighted average rate of interest on actual long-term loans for FY 2019-20, 2021-21, 2021-22, 2022-23 and 2023-24.
 - d) Obtained necessary representations from the Management of the Company.

Conclusion

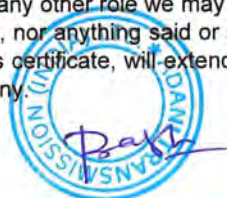
10. Based on our examination as above, evidences obtained, and the information and explanations, along with the representations provided by the Management, nothing has come to our attention that cause us to believe that the particulars that form part of the Statement, have not been accurately extracted from the audited financial statements, underlying books of accounts and other records and documents maintained by the Company for the year ended 31 March 2024, 31 March 2023, 31 March 2022, 31 March 2021 and 31 March 2020 and that the computation thereof is arithmetically inaccurate.

Other matters

11. The audited financial statements for the year ended 31 March 2023, 31 March 2022, 31 March 2021 and 31 March 2020 have been audited by the predecessor auditor, Deloitte Haskins & Sells LLP, who have expressed an unmodified audit opinion vide their audit report dated 29 May 2023, 2 May 2022, 5 May 2021 and 8 May 2020 respectively, and whose reports have been furnished to us by the management and which have been relied upon by us for the purpose of our examination. Our conclusion is not modified in respect of this matter.

Restriction on distribution or use

12. Our work was performed solely to assist you in meeting your responsibilities in relation to your compliance with the CERC Regulations. Our obligations in respect of this certificate are entirely separate from, and our responsibility and liability is in no way changed by, any other role we may have as statutory auditors of the Company or otherwise. Nothing in this certificate, nor anything said or done in the course of or in connection with the services that are the subject of this certificate, will extend any duty of care we may have in our capacity as statutory auditors of the Company.



Walker Chandiok & Co LLP

13. The certificate is addressed to and provided to the Board of Directors of the Company solely for the purpose of enabling it to comply with the CERC requirements which require it to submit the certificate with the accompanying Statement to CERC, and should not be used, referred to or distributed for any other purpose or to any other party without our prior written consent. Accordingly, we do not accept or assume any liability or any duty of care for any other purpose for which or to any other party to whom this certificate is shown or into whose hands it may come without our prior consent in writing.

For **Walker Chandiok & Co LLP**

Chartered Accountants

Firm's Registration No.: 001076N/N500013

NEERAJ GOEL

Digitally signed by NEERAJ GOEL
Date: 2024.11.07 18:26:45
+05'30'



Neeraj Goel

Partner

Membership No.: 99514

UDIN: 24099514BKCNCCK2098

Place: Gurugram

Date: 7 November 2024



Adani Transmission (India) Limited

Statement of interest rate on actual long-term loan for the financial years ended 31 March 2024, 31 March 2023, 31 March 2022, 31 March 2021 and 31 March 2020 of 500 KV HVDC Mundra To Mohindergarh & 400 KV Mundra-Semi-Dehgam Transmission Lines and 12 ohm reactor (CERC Assets)

(Rs. Crore)

Source of Loan	Financial Year	Opening balance	Addition during the Year for 12 ohm reactor	Net Movement during the year	Closing balance	Interest rate (%) as per ICD Agreement
Adani Energy Solutions Limited (formerly known as Adani Transmission Limited)	2019-20	1,723.20	-	-496.47	1,226.73	13.25%
	2020-21	1,226.73	29.51	-207.17	1,049.07	13.25%
	2021-22	1,049.07	-	-785.61	263.46	13.25%
Adani Energy Solutions Limited, novated to Adani Transmission Step-One Limited w.e.f 28th Sep 2022	2022-23	263.46	-	99.63	363.09	13.25%
Adani Transmission Step-One Limited	2023-24	363.09	-	44.16	407.25	13.25%

Note:

Interest rate on Inter Corporate Deposit (ICD) have remained same, i.e. 13.25% for the financial year ended March 31, 2020 to March 31, 2024

For Adani Transmission (India) Limited

[Signature]

Authorised Signatory
Date: 07-11-2024



Adani Transmission (India) Limited
Adani Corporate House,
Shantigram, Nr. Vaishno Devi Circle
S. G. Highway, Khodiyar,
Ahmedabad – 382421
Gujarat, India
CIN: U40101GJ2013PLC077700

Tel +91 79 2555 7555
Fax +91 79 2555 7177
info@adani.com
www.adanienergysolutions.com

Registered Office: Adani Corporate House, Shantigram, Nr. Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad – 382421

IN THE APPELLATE TRIBUNAL FOR ELECTRICITY
(Appellate Jurisdiction)

APPEAL No. 9 OF 2023

Dated: 18.11.2024

Present: Hon'ble Mr. Sandesh Kumar Sharma, Technical Member
Hon'ble Mr. Virender Bhat, Judicial Member

In the matter of:

ADANI TRANSMISSION (INDIA) LIMITED (ATIL)

(earlier Adani Power Limited),
Shikhar, Near Adani House,
Mithakhali Six Roads, Navrangpura,
Ahmedabad, Gujarat – 389009
Email: tanmay.vyas@adani.com

... Appellant

Versus

1. CENTRAL ELECTRICITY REGULATORY COMMISSION

Through its Secretary,
3rd & 4th Floor, Chanderlok Building,
36, Janpath, New Delhi- 110001
Email: secy@cercind.gov.in

2. POWER GRID CORPORATION OF INDIA LIMITED

Through its Chairman and Managing Director
Saudamini, Plot-2, Sector-29,
Near IFFCO Chowk,
Gurgaon, Haryana-122001
Email: commercialcc@powergrid.co.in



3. NATIONAL LOAD DISPATCH CENTRE

*Through its Chairman and Managing Director,
B-9, Qutab Industrial Area,
Katwaria Sarai, New Delhi-110016
Email: srnarasimhan@posoco.in*

4. NORTHERN REGIONAL LOAD DESPATCH CENTRE

*Through its Chairman and Managing Director,
18-A, Shaheed Jeet Singh Sansanwal Marg,
Katwaria Sarai, New Delhi-110016
Email: somara.lakra@posoco.in*

5. WESTERN REGIONAL POWER COMMITTEE

*Through its Member Secretary,
F-3, MIDC Area, Marol, Opposite SEEPZ,
Central Road, Andheri (East), Mumbai,
Maharashtra-400093
Email: ms-wrpc@nic.in*

6. CENTRAL ELECTRICITY AUTHORITY

*Through its Member Secretary,
Sewa Bhawan, Sector-1, R.K. Puram,
New Delhi-110066
Email: mishra.vk65@gov.in*

7. GUJARAT ENERGY TRANSMISSION COMPANY LIMITED

*Through its Chairman,
Sardar Patel Vidyut Bhavan,
Race Course, Vadodra, Gujarat-390007
Email: getco@gebmail.com*

8. HARYANA VIDYUT PRASARAN NIGAM LIMITED

*Through its Director,
1st Floor, Shakti Bhawan, C-4*



Sector-6, Panchkula, Haryana-134109
 Email: md@hvpn.gov.in

9. GUJARAT URJA VIKAS NIGAM LIMITED

Through its Managing Director,
 Sardar Patel Vidyut Bhawan, Race Course,
 Vadodara, Gujarat-390007
 Email: decsp.guvnl@gebmail.com

10. MAHARASHTRA STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED

Through its Chairman and Managing Director,
 Prakashgarh, 4th Floor, Bandra (East),
 Mumbai, Maharashtra-400051
 Email: ceppmsedcl@gmail.com

11. MADHYA PRADESH POWER MANAGEMENT COMPANY LIMITED

Through its Managing Director,
 Block No. – 11, Ground Floor,
 Shakti Bhawan, Vidhyut Nagar, Rampur,
 Jabalpur, Madhya Pradesh -482008
 Email: dilip.singh@mppmcl.com

12. M.P. AUDYOKIK KENDRA VIKAS NIGAM LIMITED

Through its Secretary,
 Free Press House, 1st Floor,
 3/54-Press Complex, A.B. Road,
 Indore, Madhya Pradesh-452008
 Email: ed.roind@mpidc.co.in

13. CHHATTISGARH STATE POWER DISTRIBUTION COMPANY LIMITED

Through its Managing Director,



Vidyut Seva Bhawan Parisar,
Dangania, Raipur, Chhattisgarh-492013
Email: cecomcseb@rediffmail.com

14. GOA STATE ELECTRICITY DEPARTMENT

Through its Executive Engineer,
Vidyut Bhawan, Panaji, Goa-403001
Email: cee-elec.goa@nic.in

15. DAMAN AND DIU ELECTRICITY DEPARTMENT

Through its Executive Engineer,
Administration of Daman & Diu,
Near Satya Narayan Temple, Nani Daman-396210
Email: elec-dmn-dd@nic.in

**16. ELECTRICITY DEPARTMENT,
ADMINISTRATION OF DADRA NAGAR HAVELI**

Through its Secretary,
Dadra Nagar Haveli, UT, Silvassa-396230
Email: caparmar1956@gmail.com

17. HEAVY WATER PROJECTS, DEPARTMENT OF ATOMIC ENERGY

Through its Chairman
Heavy Water Board, Vikram Sarabhai Bhawan,
Anushakti Nagar, Mumbai, Maharashtra-400094
Email: webmaster@mum.hwb.gov.in

18. JINDAL POWER LIMITED

Through its Chairman
Tamnar, Raigarh, Chattisgarh-496001
Email: kk.agarwal@jindalsteel.com

19. TORRENT POWER LIMITED

Through its Chairman



Torrent House, Opposite Ashram Road,
Ahmedabad, Gujarat-380009
Email: nareshjoshi@torrentpower.com

20. PTC INDIA LIMITED

Through its Chairman and Managing Director
2nd Floor, NBCC Tower,
15, Bhikaji Complex, New Delhi-110066
Email: rajiv@ptcindia.com

21. HARYANA POWER PURCHASE CENTRE

Through its Chief Engineer
Shakti Bhawan, Sector-6,
Panchkula, Haryana-134109
Email: cehppc@uhbvn.org.in

22. RAJASTHAN POWER PROCUREMENT CENTRE

Through its Chief Engineer,
Room No. 24, Vidyut Bhawan,
Janpath, Jyoti Nagar, Jaipur, Rajasthan-302005
Email: ce.ruvnl@rajasthan.gov.in

23. JODHPUR VIDYUT VITRAN NIGAM LIMITED

Through its Director,
New Power House Industrial Area,
Jodhpur, Rajasthan-342003
Email: md.jdvvn@rajasthan.gov.in

24. JAIPUR VIDYUT VITRAN NIGAM LIMITED

Through its Director,
Vidyut Bhawan, Janpath,
Jyoti Nagar, Jyoti Marg,
Jaipur Rajasthan-302005
Email: md@jvvn.org



25. AJMER VIDYUT VITRAN NIGAM LIMITED

Through its Director,
Old Power House, Hathi Bhatta,
Jaipur Road, Ajmer, Rajasthan -305001
Email: avvnl0145@yahoo.com

26. BSES YAMUNA POWER LIMITED

Through its Director,
Shakti Kiran Building, Karkardooma,
Delhi-110092
Email: Abhishek.Ku.Srivastava@relianceada.com

27. BSES RAJDHANI POWER LIMITED

Through its Director,
BSES Bhawan, Nehru Place,
New Delhi-110019
Email: megha.bajpeyi@relianceada.com

28. TATA POWER DELHI DISTRIBUTION LIMITED

Through its Director,
Cennet Building, 33 kV Substation Building,
Hudson Lines, Kingsway Camp, Delhi-110009
Email: anurag.bansal@tatapower-ddl.com

29. NEW DELHI MUNICIPAL COUNCIL

Through its Chairman,
Palika Kendra Building, Opposite Jantar Mantar,
Parliament Street, New Delhi-110001
Email: chairperson@ndmc.gov.in

30. UTTARAKHAND POWER CORPORATION LIMITED

Through its Director,
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Dehradun, Uttarakhand-248001
 Email: gmdd.upcl@yahoo.com

31. UTTAR PRADESH POWER CORPORATION LIMITED

Through its Director,
 Shakti Bhawan, 14, Ashok Marg,
 Lucknow, Uttar Pradesh-226001
 Email: spatcircle2010@gmail.com

32. NORTH CENTRAL RAILWAY

Through its Secretary and General Manager,
 Allahabad, Uttar Pradesh- 211011
 Email: gm@ncr.railnet.gov.in

33. PUNJAB STATE POWER CORPORATION LIMITED

Through its Director,
 The Mall, Ablawal, Patiala, Punjab-147001
 Email: seisbpspcl@gmail.com

34. POWER DEVELOPMENT DEPARTMENT

Through its Secretary,
 Jammu and Kashmir, Civil Secretariat,
 Jammu, Jammu & Kashmir-180001
 Email: cpjkipdd@yahoo.com

35. HIMACHAL PRADESH STATE ELECTRICITY BOARD

Through its Managing Director,
 Vidyut Bhawan, Shimla,
 Himachal Pradesh-171004
 Email: directorfa@hpseb.in

36. ELECTRICITY DEPARTMENT, UT CHANDIGARH

Through its Executive Engineer
 UT Secretariat (Deluxe) Building



Sector-9D, Chandigarh- 160009
 Email: seelecty@gmail.com

37. NORTHERN REGIONAL POWER COMMITTEE

Through its Secretary,
 18-A, Qutab Institutional Area,
 Shaheed Jeet Singh Marg, Katwaria Sarai,
 New Delhi-110016
 Email: somara.lakra@posoco.in

38. WESTERN REGIONAL POWER COMMITTEE

Through its Secretary,
 F-3, M.I.D.C. Area,
 Marol, Andheri (East),
 Mumbai, Maharashtra-400093
 Email: ms-wrpc@nic.in

39. KANPUR ELECTRICITY SUPPLY COMPANY LIMITED

Through its Director,
 14/71, Civil Lines,
 Kanpur, Uttar Pradesh-208001
 Email: md@kesco.co.in

40. RAJASTHAN RAJYA VIDYUT PRASARAN NIGAM LIMITED

Through its Director,
 Vidyut Bhawan, Vidyut Marg,
 Jaipur, Rajasthan- 302005
 Email: ce.nppr@rvpn.co.in

41. DELHI TRANSCO LIMITED

Through its Director,
 Shakti Sadan, Kotla Road,
 New Delhi-110002
 Email: gm.comm@dtl.gov.in

Respondents



Counsel for the Appellant	:	Sanjay Sen, Sr. Adv. Sourav Roy Prabudh Singh Kaushal Sharma
Counsel for the Respondents	:	Udit Gupta Anup Jain Akshat Goel Vyom Chaturvedi Prachi Gupta for Res. 10 Ravi Sharma for Res. 11 Pradeep Misra Manoj Kumar Sharma for Res. 31 Vandana for Res. 41

J U D G M E N T

PER HON'BLE MR. VIRENDER BHAT, JUDICIAL MEMBER

1. The appellant Adani Transmission (India) Limited (in short "ATIL") has preferred this appeal against the order dated 21.01.2022 passed by the Central Electricity Regulatory Commission (hereinafter referred to as "the Commission" or "the Central Commission") in petition No.216/TT/2020 of the appellant for truing up of transmission tariff for the tariff block i.e. Financial Year (FY) 2014-15 to FY 2018-19 under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2014 (hereinafter



referred to as “2014 Tariff Regulations”) and for determination of tariff for the period of next tariff block i.e. FY 2019-20 to FY 2023-24 under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as “2019 Tariff Regulations”).

2. The appellant is a transmission licensee and had sought truing up of transmission tariff / determination of transmission tariff, as noted hereinabove, in respect of its two transmission assets which are described below: -

(a) 500kV bipole Mundra – Mohindergarh HVDC Transmission Line including associated 400kV lines, terminal sub-stations and bays used to evacuate power from Mundra Power Project to Northern region (hereinafter referred to as “Asset-I”); and

(b) 400kV D/C Mundra – Dehgam Transmission Line, including the associated system used to evacuate power from Mundra Power Project to Western region (hereinafter referred to as “Asset-II”).

3. The respondent No.2 is the Power Grid Corporation of India, which is the Central Transmission Utility as per Section 38 of the Electricity Act, 2003. The respondent Nos.3 to 5 are the authorities which are engaged with



optimum functioning of the inter-state grid. The respondent No.6 is the authority which is involved in planning, construction and coordination of the inter-state transmission system (ISTS).

4. The respondent Nos.7 to 41 are the stakeholders in the ISTS which have to share the cost of transmission system of the appellant.

5. We find it appropriate to note the brief background of the case which has given rise to this appeal.

(a) M/s Adani Power Limited (hereinafter referred to as "APL") had set up a 4620MW power plant at Mundra, District Kutch, Gujarat comprising of four sub-critical units of 330MW and 5 super critical units of 660 MW. It had implemented the above noted two transmission systems in order to evacuate power from the said Mundra Power Project to northern region and western region. It filed an application before the Central Commission on 21.02.2012 seeking transmission license for these two transmission lines alongwith associated system, which was granted on 29.07.2013. Vide the said order the Central Commission also held that these transmission assets will be considered as part of ISTS from the date



of said order. The transmission license was thereafter assigned from APL to the appellant herein vide order dated 08.01.2015 passed by the Central Commission in petition No.421/MP/2014.

- (b) The scope of the work as per order dated 29.7.2013 in Petition No. 44/TL/2012 is as follows:

“

Particulars of Assets
AC system
Transmission line
(i) 400 kV D/C Mohindergarh-Dhanonda
(ii) 400 kV D/C Mohindergarh-Bhiwani
(iii) 400 kV D/C Mundra-Sami-Dehgam
Sub-stations
(i) Sub-stations at Mundra & Mohindergarh
(ii) Bays at Bhiwani (PG) Sub-station
(iii) Sub-stations at Mundra & Sami
(iv) Bays at Dehgam (PG) Sub-station
HVDC System
Transmission Line
(i) + 500 kV Bipole Mundra-Mohindergarh HVDC line
(ii) 33 kV D/C Electrode lines for HVDC Mundra and Mohindergarh Terminal Stations
Sub-station
(i) HVDC Terminal Stations at Mundra & Mohindergarh

”

- (c) The entire scope of work under the transmission project has been completed and is covered in the instant petition, the particulars of the assets under scope of the work is as follows:



“

AC system	Asset details
Transmission line	
(i) 400 kV D/C Mohindergarh Dhanonda	Asset-I
(ii) 400 kV D/C Mohindergarh-Bhiwani	Asset-I
(iii) 400 kV D/C Mundra – Sami – Dehgam	Asset-II
Sub-stations	
(i) Sub-stations at Mundra & Mohindergarh	Asset-I
(ii) Bays at Bhiwani (PG) Substation	Asset-I
(iii) Sub-stations at Mundra & Sami	Asset-II
(iv) Bays at Dehgam (PG) Sub-station	Asset-II
HVDC System	
Transmission line	
+ 500 kV Bipole Mundra-Mohindergarh HVDC line	Asset-I
33 kV D/C Electrode lines for HVDC Mundra and Mohindergarh Terminal Terminal Stations	Asset-I
Sub-station	
HVDC Terminal Stations at Mundra & Mohindergarh	Asset-I

”

- (d) The transmission project was executed in two sets for evacuation of power from Mundra Power Project namely, Asset-I (for evacuation of power to NR) and Asset-II (for evacuation of power to WR) as detailed hereunder:

“

Asset	Name of Asset	Actual COD
Asset-I	HVDC Pole-I along with HVDC line	12.07.2012
	HVDC Pole-II along with HVDC line	09.10.2012
	400 kV D/C Mohindergarh-Dhanonda AC line	12.07.2012
	400 kV D/C Mohindergarh-Bhiwani AC line	09.08.2012
	400 kV D/C Mundra-Sami-Dehgam	13.07.2009

”



Asset-II	<i>400 kV D/C Sami-Dehgam along with Switching Station</i>	<i>13.07.2009</i>

- (e) The tariff for the transmission assets was allowed by the Central Commission for the period from 1.10.2013 to 31.3.2014 vide order dated 18.3.2016 in Petition No.184/TT/2013, considering the deemed COD as 1.10.2013.
- (f) Aggrieved with the Commission's order dated 18.3.2016 in Petition No.184/TT/2013, the appellant filed Appeal No. 226 of 2016 before this Tribunal contesting decision of the Commission to approve COD as 1.10.2013 instead of 29.7.2013 and against reduction of capital cost of sub-stations.
- (g) This Tribunal, vide judgment dated 8.11.2017 partly allowed the Appeal. It was held that there is no infirmity in Commission's decision to consider the opening loan as on the date of commencement of tariff after reducing it by cumulative depreciation. However, this Tribunal remanded the matter back to the Commission for considering the date of grant of transmission licence, i.e. 29.7.2013, as COD of the transmission assets and also to consider the actual cost paid by the ~~Petitioner~~ to PGCIL towards



construction of sub-station on deposit work basis while determining the capital cost of the transmission assets.

- (h) The relevant portion of the judgment dated 8.11.2017 of APTEL in Appeal No. 226/2016 regarding COD is extracted hereunder:

"We are of the considered opinion that some issues raised in the present Appeal have merit as discussed above. The Appeal is hereby partially allowed.

The Impugned Order dated 18.3.2016 passed by the Central Commission is hereby remanded to the Central Commission for allowing the date of grant of Transmission License i.e. 29.7.2013 as the date of tariff commencement for the transmission assets of the Appellant & to determine the capital cost of the said transmission assets including Bhiwani & Dehgam sub stations as on date of grant of Transmission License as decided above including consequential reliefs to the Appellant."



- (i) As regards the capital cost of the sub-station, it was held in the said judgement dated 8.11.2017 as follows:

"Reduction of Capital Cost of AC Substation Portion

1) In view of the above we are of the considered opinion that the Central Commission is justified in using benchmark capital cost while deciding capital cost of the AC substation of the Appellant and there is no infirmity in the decision of the Central Commission. (Ref: 16 (c) v)

2) We observe that in case of the sub stations (Bhiwani & Dehgam) where Powergrid has carried out the works of the Appellant on deposit works basis in the premises of its existing sub stations, the Central Commission has compared the capital cost of the Appellant with that of the indicative cost of similar works carried out by Powergrid. (Ref: 16 (h) ii)

3) We see some merit in the claim of the Appellant that the Central Commission has subjectively used indicative



cost or benchmark cost as prudence check for arriving at the capital cost of the Appellant. In view of our discussions as above, the deposit works carried out by the Powergrid on behalf of the Appellant and the cost of those works being less than as derived from the benchmark model, we are of the considered opinion that the Appellant is entitled to recover the cost for the said sub stations where Powergrid has executed the works on behalf of the Appellant. The Central Commission is hereby directed to consider the actual capital cost considering the deposit work executed by Powergrid for the said transmission assets. Here we would like to clarify that the capital cost in this case for the said assets is to be considered as on date of grant of TL as we have decided the date of tariff commencement as the date of grant of TL to the Appellant. (Ref: 16 (h) iii)

Reduction of Loan Outstanding by Cumulative Depreciation till the Date of Transmission License



1) Accordingly, as per the foregoing discussions, we decide that the opening loan as on date of tariff commencement date is to be considered after reducing it by cumulative depreciation as done by the Central Commission and there is no infirmity in the decision of the Central Commission in this regard. (Ref: 16 (j) v)

2) We have already decided that the tariff commencement date is to be considered as date of grant of TL i.e. 29.7.2013 therefore, the Central Commission is directed to work out the capital cost as on 28.7.2013 and the other tariff components including interest on loan as per the provisions of the Tariff Regulations, 2009. (Ref: 16 (j) vi)

3) On the issue of depreciation on pruned capital cost as on date of tariff determination, the Central Commission has submitted that this issue is being dealt in true up petition filed by the Appellant. Accordingly, with the consent of the parties this issue is not dealt in the present Appeal. However, it is clarified that the date of tariff



commencement is to be taken as 29.7.2013 as decided in this judgement. (Ref: 16 (j) vii)"

- (j) Aggrieved with the decision of APTEL on the issue of amount of opening loan, the Petitioner has filed a Review Petition No. 3 of 2018 in said Appeal No. 226/2016 before this Tribunal and same is pending. The appellant has also filed a Civil Appeal against the said judgment of this Tribunal in Appeal No. 226/2016 before the Hon'ble Supreme court and the same is also pending.
- (k) In the meanwhile, the Petitioner filed Petition No. 146/TT/2016 for truing up of tariff for 2013-14 period and for determination of transmission tariff for the 2014-19 tariff period. The trued-up tariff determined vide order dated 3.11.2017 in Petition No.146/TT/2016 was based on admitted capital cost of ₹364539.06 lakh and ₹54089.69 lakh as on 1.10.2013 and ₹370083.06 lakh and ₹54089.69. lakh as on 31.3.2014, in case of Asset-I and Asset-II respectively. The trued-up additional capital expenditure (ACE) considered for Asset-I and Asset-II during 2013-14 period was ₹5544.00 lakh and 'nil', respectively.



6. Subsequently, the appellant filed petition No.216/TT/2020 seeking truing up of the transmission tariff for the period of the tariff block 2014-15 to 2018-19 and for determination of tariff for the period from 2019-20 to 2023-24, which has been decided by the Commission vide the impugned order dated 21.01.2022. The appellant had prayed in the petition as under: -

“1) Approve the Trued-up Transmission Tariff for the Period of FY 2014-15 to FY 2018-19 for the assets covered under this petition.

2) Approve the Additional Capitalisation actually incurred during the tariff block FY 2014-15 to FY 2018-19 as claimed in the petition.

3) Approve the transmission tariff for the tariff block FY 2019-20 to FY 2023-24 for the assets covered under this petition, claimed in this petition.

4) Approve the Additional capitalisation projected to be incurred during the tariff block of FY 2019-20 to FY 2023-24 as claimed in the petition.



5) Approve the reimbursement of expenditure by the beneficiaries towards Petition filing fee, and expenditure on publishing of notices in newspapers in terms of Tariff Regulations and other expenditure (if any) in relation to the filing of petition.

6) Allow the Petitioner to bill and recover the Licence fee and RLDC fees and charges, separately from the respondents in terms of Tariff Regulations: and

7) Pass such other relief as Hon'ble Commission deems fit and appropriate under the circumstances of the case and in the interest of justice."

7. This appeal is limited to following issues only: -

- a. Disallowance of Additional Capital Expenditure for FY 2016-17 to FY 2018-19;
- b. Disallowance of Additional Capital Expenditure for FY 2019-20 to FY 2023-24;
- c. Disallowance of actual rate of interest on long-term loan;



- d. Disallowance of Depreciation for FY 2021-22 to FY 2023-24 for Asset-II;
- e. Disallowance of Operations and Maintenance (“O&M”) expenses for the communication system for FY 2019-20 to FY 2023-24.
- f. Disallowance of O&M expenses for Fixed Series Compensator (“FSC”) for FY 2019-20 to FY 2023-24.

8. We have heard learned senior counsel appearing on behalf of the appellant and learned counsels appearing for respondent Nos.10,11 and 31. No other respondent has contested the appeal. We have also perused the impugned order, entire material on record and the written submissions filed on behalf of the appellant and respondent Nos.10 & 11.

Issue No.1 &2 :- Disallowance of additional capital expenditure for the FY 2016-17 to FY 2018-19 and FY 2019-20 to FY 2023-24.

9. Both these issues relate to the additional capital expenditure claimed by the appellant and therefore, are taken up together for disposal.

10. The below given table illustrates the findings and the reasons which persuaded the Commission to disallow the additional capital expenditure for these Financial Years: -



“

<i>Issues</i>	<i>Held</i>
<i>True up for the annual period for 2014-2019</i>	
<i>Additional Capital Expenditure</i>	<i>Additional Capital Expenditure claimed in regard to FY 2016-2017 to FY 2018-2019 in both Asset I and Asset II was disallowed.</i> <i>The details are as under:</i> <u>Asset I</u> <i>i. Truck mounted hot line washing machine for insulators: Disallowed as O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff Regulations.</i> <i>ii. Silicon Paint Coating on High voltage Insulators:</i>



	Disallowed as O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff Regulations. iii. Replacement of Porcelain insulator: Disallowed as Consent of the beneficiaries not taken, and not submitted any approval of RPC for replacement of the existing insulators. iv. Expenses for installation of security system: Disallowed as O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff Regulations. v. Automatic Power Factor Control (APFC) panel:



	Disallowed as Appellant did not submit any test reports or any OEM certificate. vi. Emergency Restoration System: Disallowed as O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff Regulations. <u>Asset II</u> i. Expenses for installation of security system for efficient operation of transmission system: Disallowed as O&M in nature and not allowable under Regulation 14(3)(ix) of the 2014 Tariff Regulations ii. Replacement of Battery Bank: Disallowed as Appellant did not submit any



	test reports or any OEM certificate. iii. Upgradation of Power Line Carrier Communication (PLCC): Disallowed as Appellant did not submit RPC/SCM approval. iv. Liabilities to meet award of arbitration for Land at Sami: Disallowed as Appellant did not submit any documentary evidence. v. Change of possession of Land: Disallowed as Appellant did not submit RPC/SCM approval. vi. Emergency restoration system: Disallowed as O&M in nature and not allowable



	<i>under Regulation 14(3)(ix) of the 2014 Tariff.</i>

”

11. Before discussing the rival submissions made on behalf of the parties, we find it necessary to take note of the relevant provisions of the Tariff Regulations, 2014. Regulation 3 is the definition clause. Regulation 3(2) defines “additional capitalization” as under: -

“ ‘Additional Capitalisation’ means the capital expenditure incurred, or projected to be incurred after the date of commercial operation of the project and admitted by the Commission after prudence check, in accordance with provisions of Regulation 14 of these regulations;”

12. Regulation 3(8) provides that the capital cost has to be determined in accordance with Regulation 9 of these regulations.

13. As per Regulation 3(13), ‘Cut-off Date’ means “31st March of the year closing after two years of the year of commercial operation of whole or part of the project, and in case the whole or part of the project is declared under commercial operation in the last quarter of a year, the cutoff date shall be 31st



March of the year closing after three years of the year of commercial operation". The proviso attached to the said regulation states that the cut-off date may be extended by the Commission if it is proved on the basis of documentary evidence that the capitalisation could not be made within the cutoff date for reasons beyond the control of the project developer.

14. According to regulation 3(42) 'Operation and Maintenance Expenses' or 'O&M expenses' means the expenditure incurred for operation and maintenance of the project, or part thereof, and includes the expenditure on manpower, repairs, maintenance spares, consumables, insurance and overheads but excludes fuel expenses and water charges.

15. Regulation 3(48) defines 'Prudence Check' and is quoted as under:-

"'Prudence Check' means scrutiny of reasonableness of capital expenditure incurred or proposed to be incurred, financing plan, use of efficient technology, cost and time over-run and such other factors as may be considered appropriate by the Commission for determination of tariff. While carrying out the Prudence Check, the Commission shall look into whether the generating company or



transmission licensee has been careful in its judgments and decisions for executing the project or has been careful and vigilant in executing the project.”

16. The principles to be adopted for prudence check of capital cost of the existing or new projects have been stated in Regulation 10, which is extracted hereunder:-

“10. Prudence Check of Capital Expenditure:

The following principles shall be adopted for prudence check of capital cost of the existing or new projects:

(1) In case of the thermal generating station and the transmission system, prudence check of capital cost may be carried out taking into consideration the benchmark norms specified/to be specified by the Commission from time to time: Provided that in cases where benchmark norms have not been specified, prudence check may include scrutiny of the capital expenditure, financing plan, interest during construction, incidental expenditure during construction for its reasonableness, use of efficient



technology, cost over-run and time over-run, competitive bidding for procurement and such other matters as may be considered appropriate by the Commission for determination of tariff: Provided further that in cases where benchmark norms have been specified, the generating company or transmission licensee shall submit the reasons for exceeding the capital cost from benchmark norms to the satisfaction of the Commission for allowing cost above benchmark norms.

(2) The Commission may issue new guidelines or revise the existing guidelines for vetting of capital cost of hydro-electric projects by an independent agency or an expert and in that event the capital cost as vetted by such agency or expert may be considered by the Commission while determining the tariff for the hydro generating station.

(3) The Commission may issue new guidelines or revise the existing guidelines for scrutiny and approval of commissioning schedule of the hydro-electric projects in accordance with the tariff policy issued by the Central



Government under section 3 of the Act from time to time which shall be considered for prudence check.

(4) Where the power purchase agreement entered into between the generating company and the beneficiaries provides for ceiling of actual capital expenditure, the Commission shall take into consideration such ceiling for determination of tariff for prudence check of capital cost.”

17. Regulation 14 is with regards to additional capitalization and de-capitalization. Sub-Regulations 3(i), (vii) and (ix) are relevant to this appeal and are extracted hereinbelow: -

“(3) The capital expenditure, in respect of existing generating station or the transmission system including communication system, incurred or projected to be incurred on the following counts after the cut-off date, may be admitted by the Commission, subject to prudence check:

(i) Liabilities to meet award of arbitration or for compliance of the order or decree of a court of law;

...



(vii) Any additional capital expenditure which has become necessary for efficient operation of generating station other than coal/lignite based stations or transmission system as the case may be. The claim shall be substantiated with the technical justification duly supported by the documentary evidence like test results carried out by an independent agency in case of deterioration of assets, report of an independent agency in case of damage caused by natural calamities, obsolescence of technology, up-gradation of capacity for the technical reason such as increase in fault level;

...

(ix) In case of transmission system, any additional expenditure on items such as relays, control and instrumentation, computer system, power line carrier communication, DC batteries, replacement due to obsolescence of technology, replacement of switchyard equipment due to increase of fault level, tower strengthening, communication equipment, emergency restoration system, insulators cleaning infrastructure,



replacement of porcelain insulator with polymer insulators, replacement of damaged equipment not covered by insurance and any other expenditure which has become necessary for successful and efficient operation of transmission system;”

18. It is not in dispute that the cut-off date in the instant case was 31.03.2016. Therefore, the capital expenditure incurred by the appellant after 31.03.2016 is covered under Regulation 14(3) of these 2014 Tariff Regulations.

19. Now, we will take the claims of the appellant with regards to the additional capital expenditure for FY 2016-17 to FY 2018-19 asset-wise.

Asset-I

- (i) Truck mounted hotline washing machine for insulators
- (ii) Silicon Paint Coating on High Voltage Insulators
- (iii) Installation of Security System
- (iv) Emergency restoration system
- (v) Replacement of porcelain insulators



- (vi) Expenditure towards installation of Automatic Power Factor Correction (APCF) Panel

20. The appellant had claimed additional capital expenditure on above counts for the FY 2016-17 and 2017-18 under Regulation 14(3)(ix) but the same has been denied by the Commission on the ground that these expenditures are in the nature of O&M (Operation and Maintenance) and thus not allowable under said regulation 14(3)(ix) of 2014 Tariff Regulations.

(i) Truck mounted hotline washing machine for insulators:

21. On behalf of the appellant, it is contended that the insulators and the equipment get contaminated due to various factors and the contaminated insulators are susceptible to flashovers during humid atmospheres, dew or foggy weather, etc., and hence, there is a need to clean them periodically. It is further contended that the appellant was facing frequent failures and disturbances in the HVDC line, and in order to minimize the same, the Appellant decided to develop an insulator cleaning infrastructure. Accordingly, the appellant purchased the truck-mounted hotline washing machine for insulators which had become necessary and therefore, the Commission has erred in rejecting the claim of the Appellant under this head.



22. It is argued on behalf of the respondents that expenditure incurred by the appellant towards truck-mounted hotline washing machine for insulators is not an expenditure but is a part of O&M expenses already allowed on normative basis to the appellant vide order dated 03.11.2017 in petition No.146/TT/2016. It is further argued that the said expenditure is not of the nature of necessary or genuine expenditure which could not be avoided and prior approval for the for the same should have been sought from the Commission.

23. We have already noted sub-regulation 3(ix) of Regulation 14 of 2014 Tariff Regulations hereinabove. It specifically mentions that in case of a transmission system, capital expenditure incurred after the cut-off date towards insulators cleaning infrastructure may be admitted by the Commission subject to the prudence check. Therefore, reasoning of the Commission that expenditure under this head is not allowable as it is in the nature of O&M, is patently erroneous and not sustainable. We find the reasons given by the appellant for installing the truck-mounted hotline washing machine for insulators absolutely justified.

24. In view thereof, we allow the claim of the appellant under this head subject to the prudence check as to the admissibility as per the documents



submitted / to be submitted by the appellant. This exercise shall be completed by the Commission within one month from the date of this judgment.

(ii) Silicon Paint Coating on High Voltage Insulators:

25. With regards to the expenditure incurred by the appellant on silicon paint coating on high voltage insulators, it is submitted by the appellant's counsel that the corrosion and pollution of outdoors high voltage insulators is a common problem for utilities, with a considerable impact on the power system reliability which may result in possible outage in the high voltage system. It is submitted that to prevent possible flashovers due to corrosion and pollution, high voltage insulation quoting is done with an aim to improve the insulation performance, either by suppressing the formation of surface conductivity or by increasing the possible insulation level. It is further pointed out that since the appellant's HVDC lines are in a coastal area, it has been facing the issues of corrosion and subsequent failures of insulators, and therefore the appellant carried out the silicon painting in HVDC sub-station equipment to avoid tripping due to dust and corrosion which was essential for maintaining the operational reliability and efficiency of transmission system. It is submitted that this expenditure is permissible under Regulation 14(3)(ix) of



2014 Tariff Regulations, and has been erroneously disallowed by the Commission on the ground that it is in the nature of O&M.

26. On behalf of the respondents, it is contended that the prior approval of the Commission and the consent of beneficiaries was not obtained by the appellant before incurring such expenditure and even otherwise also, the appellant would get compensated by saving in O&M expenditure and repairs after getting the said work done. It is argued that said expenditure is not covered under Regulation 14 of 2014 Tariff Regulations and has been rightly disallowed by the Commission.

27. A bare reading of Regulation 14(3)(ix) of 2014 Tariff Regulations reveals that any expenditure incurred by a transmission licensee after the cutoff date which had become necessary for successful and efficient operation of transmission system may be allowed by the Commission subject to prudence check. In the instant case, it is the contention of the appellant that silicon quoting of high voltage insulators had become essential for maintaining the operational reliability and efficiency of the transmission system particularly in the corrosive coastal environment where the appellant's HVDC lines are located. Therefore, it was incumbent upon the Commission to conduct a



prudence check to ascertain whether such expenditure had become actually essential for the appellant for efficient operation of the transmission system. Ironically, no such exercise appears to have been conducted by the Commission. We are unable to countenance the view of the Commission that such an expenditure is squarely within the ambit of O&M expenses. We have already extracted hereinabove Regulation 3(42) of 2014 Tariff Regulations which define O&M expenses. The expenditure on silicon paint coating on high voltage insulators cannot be taken to be expenditure towards normal / regular operation and maintenance of the transmission line or any part thereof. It is manifest that the appellant was constrained to carryout silicon painting in its HVDC sub-station equipment as it has been facing issues of corrosion and consequent failures of insulators which was impeding the efficient operation of the transmission system. Therefore, we set aside the findings of the Commission on this issue and allow the claim of the appellant in this regard. However, it would be subject to the prudence check as to the admissibility as per the documents submitted / to be submitted by the appellant. This exercise shall be completed by the Commission within one month from the date of this judgment.

(iii) Installation of Security System and (iv) Emergency restoration system:



28. So far as the expenditure incurred by the appellant for installation of security system and emergency restoration system is concerned, we are unable to accept the view of the Commission that these are in the nature of O&M expenses. The contention on behalf of the appellant that these expenditures had become necessary for efficient operation of the transmission system in view of regular incidents of thefts that led to frequent outages / tripping of transmission lines, appears to be plausible and can not be rejected, outrightly. It is also contended that appellant's efforts to maintain the security and integrity of the transmission lines through conventional means such as deployment of security personnel proved ineffective and system's credibility as well as efficiency was continuously compromised. We do not find any reason to disbelieve these contentions of the appellant. Therefore, we are of the considered opinion that expenditure under these two heads had become essential for the appellant to maintain continuous and efficient operation of the transmission systems. The Commission has grossly erred in disallowing the expenditure under these two heads and therefore, we set aside the findings of the Commission in this regard. We allow the claims of the appellant under these two heads subject to prudence check to be



conducted by the Commission within one month from the date of this judgment.

29. We may also note that an argument was raised on behalf of the respondents to the effect that the appellant had not taken prior approval of the Commission / Regional power Committee (RPC) and the consent of the beneficiaries before incurring the expenditure under these heads and therefore, same have been rightly disallowed by the Commission. The argument has been noted only to be rejected. It is for the reason that there is nothing in the entire regulation 14 or in any other regulation / sub-regulation of 2014 Tariff Regulations to show that the appellant was required to obtain such prior approval of Commission / RPC or consent of beneficiaries before implementing these works. What Regulation 14 envisages is that the Commission is authorized to approve any capital expenditure incurred by a generating station or a transmission system after cutoff date under the heads enumerated therein, subject to prudence check. Therefore, there are only two conditions upon fulfilment of which any capital expenditure incurred after the cutoff date can be allowed by the Commission and these are: -

- (i) The expenditure shall be on any count as enumerated in sub-regulation 3 of Regulation 14; and



- (ii) It should pass the prudence check to be conducted by the Commission.

30. Therefore, once any capital expenditure incurred by a transmission system after the cutoff date falls within the heads enumerated in sub-regulation 3 of Regulation 14 and passes the prudence check conducted by the Commission, same has to be allowed. There is no requirement for any prior approval of the Commission / RPC or prior consent from the beneficiaries for approval of such additional capital expenditure.

(v) Replacement of porcelain insulators:

31. The claim of the appellant under this head also has been rejected by the Commission on the ground that the appellant had not sought approval of RPC and consent of the beneficiaries for replacement of existing insulators. We have already noted hereinabove that Regulation 14 of 2014 Tariff Regulation nowhere stipulates that the consent of beneficiaries or the approval of RPC is required prior to carrying out any additional expenditure after the cutoff date. Therefore, we set aside the findings of the Commission on this count and allow the claim of the appellant under this head subject to the prudence check as to the admissibility as per the documents submitted /



to be submitted by the appellant. This exercise shall be completed by the Commission within one month from the date of this judgment.

(vi) Expenditure towards installation of Automatic Power Factor Correction (APCF) Panel

32. The claim of the appellant under this head has been rejected by the Commission on the ground that the appellant did not submit test reports or certificate from the Original Equipment Manufacturer (OEM) to support its claim.

33. It is submitted on behalf of the appellant that there is no such requirement under Regulation 14(3)(ix) of 2014 Tariff Regulations to submit test reports or OEM recommendations in cases where the technology has become obsolete and equipment upgrades are necessary for successful operation of the transmission system. It is argued that the appellant was facing issue of low power factor which gave rise to higher current and excessive heat generation thereby damaging the equipment or shortening its life. It is submitted that in order to improve the power factor, it was decided to install APFC system which had become very essential to mitigate. Operational inefficiency caused by low power factor.



34. Even though we tend to agree with the contentions of the appellant that installation of APFC system had become essential for smooth functioning of the transmission system yet we find that in view of sub regulation (vii) of Regulation 14, it was incumbent upon the appellant to substantiate its claim under this count with documentary evidence like test report or OEM certificate. Further, the Commission was within its right and competence during prudence check to call for test reports as well as OEM certificate from appellant. Nothing has been brought to our knowledge on behalf of the appellant which prevented the appellant from submitting the test reports and OEM certificate to the Commission. Hence, we do not find any good ground to interfere in the findings of the Commission on this issue and hereby affirm the same.

Asset-II

(i) Expenses for Installation of Security System

35. We have already held in Paragraph No.28 hereinabove that the expenditure under the said head had become essential for the appellant to maintain continuous and efficient operation of the transmission system and it



does not come within the ambit of O&M expenses. Therefore, we set aside the findings of the Commission under this head and allow the claim of the appellant subject to the prudence check as to the admissibility as per the documents submitted / to be submitted by the appellant. This exercise shall be completed by the Commission within one month from the date of this judgment.

(II) Replacement of Battery Bank

36. The commission has disallowed the claim of the appellant on the count citing the absence of test reports or recommendation from OEM.

37. It is argued on behalf of the appellant that replacement of the Battery Bank had become essential to maintain the reliability of the transmission system as the existing Battery Bank had completed its operational life and had started exhibiting failures. It is argued that the expenditure on replacement of Battery Bank is fully justified and covered under Regulation 14(3)(ix) of 2014 Tariff Regulations and its disallowance by the Commission on the ground of non-submission of test reports or OEM recommendations is unfounded.



38. Even though the replacement of existing Battery Bank had become essential for smooth operation of the transmission system, as contended by the appellant, yet in view of sub-regulation (vii) of Regulation 14, it was incumbent upon the appellant to substantiate its claim under this head with documentary evidence like test report or OEM recommendation. Further, the Commission was within its right and competence during the prudence check to call for such test reports as well as OEM recommendation from them. Since the appellant has not provided test reports or OEM recommendations to the Commission, we do not find any ground to interfere in the findings of the Commission on this issue and hereby affirm the same.

(iii) Upgradation of Power Line Carrier Communication (PLCC)

39. The Commission has rejected the claim of the appellant under this head as the appellant did not submit the approval of RPC. We have already head in Para Nos.29 & 30 hereinabove that 2014 Tariff Regulations nowhere stipulate that approval of RPC is required prior to carrying out any additional expenditure after the cutoff date. Therefore, we set aside the findings of the Commission on this issue and allow the claim of the appellant subject to



prudence check as to the admissibility as per the documents submitted / to be submitted by the appellant. This exercise shall be completed by the Commission within one month from the date of this judgment.

(iv) Liabilities to meet award of arbitration for Land at Sami.

40. It is argued on behalf of the appellant that it had paid Rs. 27,00,000/- (Rupees Twenty-Seven Lakhs) as part of settlement charges for purchase of land measuring 1580 sq. meters for 400 kV Switching Station, Sami. It is submitted that the payment was made in compliance with the order of court as it was a court-mandated settlement and, therefore, such payment is squarely covered under Regulation 14(3)(i) of 2014 Tariff Regulations.

41. The Commission has rejected the appellants claim under this head on the ground that the appellant did not submit any documents in support thereof. However, it is submitted on behalf of the appellant that the Commission never asked for any document from the appellant in support of such claim.

42. In this view of the matter, we remand the claim of the appellant under this head to the Commission to be decided afresh after directing the appellant to submit requisite documents in support of the claim. We direct that the



Commission shall pass a fresh decision on this claim of the appellant within two months from the date of this judgment.

(v) Expenditure towards change of possession of Land.

43. The appellant had claimed additional capital expenditure in the amount of Rs.22,00,000/- (Rupees twenty-two lakh) towards change of ownership of some portion of the land which was earlier not in its possession. The claim has been disallowed by the Commission citing non-submission of any documentary evidence in support thereof.

44. It is argued on behalf of the appellant that the documentary evidence regarding change of ownership of the land and the expenditure incurred thereupon are not available with the appellant and therefore the same could not be submitted to the Commission. This appears to be a bald assertion by the appellant which is not only vague but also unbelievable. It is nowhere explained by the appellant as to what happened to the documents prepared regarding the change of ownership of the portion of land in question and the payment made by it for the same. We do not find any infirmity in the decision of the Commission on this claim of the appellant. However, we grant one more opportunity to the appellant to submit documents in support of this claim



to the Commission within two weeks from the date of this judgment after which the Commission shall decide such claim afresh within four weeks.

(vi) Expenditure towards emergency restoration system.

45. The Commission has rejected the claim of the appellant under this head on the ground that it is in the nature of O&M and not allowable under Regulation 14(3)(ix). We have already held in Para No.28 hereinabove that expenditure towards emergency restoration system had become necessary for the appellant for efficient operation of the transmission system and expenditure towards the same is not in the nature of O&M. Therefore, we allow the claim of the appellant under this head subject to prudence check as to the admissibility as per the documents submitted / to be submitted by the appellant. This exercise shall be completed by the Commission within one month from the date of this judgment.

Issue No.3: Disallowance of actual rate of interest on long-term loan for 2014-2019 & 2019-2024 control period.

46. The issue relates to the disallowance of interest rate by the Commission on the Inter-Corporate Deposit ("ICD") loan availed by the appellant for the



calculation of the Weighted Average Rate of Interest ("WAROI") on the actual loan portfolio for FY 2015-16 to FY 2018-19 and the 2019-2024 control period. The disallowance has been on the ground that the appellant should have disclosed the ICD loan agreement in previous Petition No. 146/TT/2016, which was filed for tariff determination for the 2014-19 tariff period. The Commission also found the justification given by the appellant for securing ICD loan from a group company rather than from a bank or financial institution unconvincing. We extract the findings of the Commission on this issue as contained in the impugned order, hereinbelow: -

"51. We have considered the submissions of the Petitioner and observe that the Weighted Average Rate of Interest (WAROI) claimed by the Petitioner for computing IOL for transmission assets for the period 2015-16 to 2018-19 is in the range of 12.22% to 14.20%. It is also observed that the Petitioner has availed ICD from its group company instead of taking loan from bank or any other financial institutions. The Petitioner has furnished the copy of ICD loan agreement executed with group company which reveals that the said agreement was executed on



31.7.2015. Further, the Petitioner had filed Petition No. 146/TT/2016 for determination of tariff for 2014-19 tariff period for the transmission assets on 9.8.2016. However, the Petitioner had not disclosed this arrangement of availing ICD loan from group company viz. Adani Transmission Limited while claiming the tariff for 2014-19 tariff period in Petition No. 146/TT/2016. The Petitioner now in the instant true-up petition has disclosed this ICD loan agreement executed on 31.7.2015. The Petitioner should have brought to the notice of the Commission this ICD loan agreement in Petition No. 146/TT/2016, filed for determination of tariff for 2014-19 tariff period for the instant assets. Further, the submissions/justifications made for availing ICD loan from group company viz. Adani Transmission Limited instead of any bank or any other financial institutions in the instant true-up petition by the Petitioner does not appear convincing. Therefore, WAROI of 12.22% (the lowest WAROI claimed among the 5 years of 2014-19 tariff period) has been considered for truing up



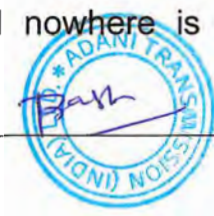
of IOL for the period 2015-16 to 2018-19 for the transmission assets.

....

105. We have considered the submission of the Petitioner. As discussed earlier in this order, WAROI of 12.22% has been considered for truing up of tariff from 2015-16 to 2018-19. The same has been considered as WAROI for computing IOL for 2019-24 tariff period for the transmission assets. IOL considered for the transmission assets is as follows:

...”

47. Learned counsel for the appellant submitted that the Commission has erred in calculating the interest on the loan using the lowest WAROI among the 5 years of the 2014-19 tariff period and adopting the same principle for 2019-24 control period. This is not the requirement under the applicable regulations i.e. Regulation 26(5) of 2014 Tariff Regulations and Regulation 32(5) of 2019 Tariff Regulations. He would submit that these regulations clearly provide for WAROI is to be computed on the basis of actual loan portfolio during the concerned year and nowhere is there a stipulation



requiring the consideration of lowest WAROI for the entire tariff period. It is argued that the appellant had calculated the interest on the loan for 2014-19 tariff period according to Regulation 26 read with Regulation 19(1) of 2014 Tariff Regulations and for the 2019-24 tariff period as per Regulation 32 of 2019 Tariff Regulations. A table has been given in the Written Submissions filed on behalf of the appellant showcasing the details of the WAROI of actual claim made by appellant as contrasted with the loan as allowed by the Commission. The table is reproduced hereinbelow: -

"Control Period 2014-19:

Particulars	FY 2016-17		FY 2017-18		FY 2018-19	
	Claimed	Approved	Claimed	Approved	Claimed	Approved
WAROI	14.20%	12.22%	13.25%	12.22%	13.25%	12.22%

Control Period 2019-24:

Particulars	FY 2019-20		FY 2020-21		FY 2021-22		FY 2022-23		FY 2023-24	
	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved	Claimed	Approved
WAROI	13.25%	12.22%	13.25%	12.22%	13.25%	12.22%	13.25%	12.22%	13.25%	12.22%

”

48. It is further argued that the petition No.146/TT/2016 was filed for the determination of tariff for the period from FY 2014-15 to FY 2018-19 and at



the time of filing of the same, the appellant was required to submit the details on provisional basis and accordingly the appellant had submitted details of WAROI loan portfolio in the said petition on provisional basis for these Financial Years. It is submitted that as per 2014 Tariff Regulations appellant was required to submit the details of actuals for truing-up for these FYs and therefore the actual details were submitted in the instant petition filed for truing-up.

49. The learned counsel would further argue that the 2014 and 2019 Tariff Regulations only provide for consideration of WAROI of actual loan portfolio which would include ICD and these regulations do not differentiate as to whether the loan is taken from public sector financial institutions or private sector financial institutions or group companies. It is further pointed out by the learned counsel that ICD loan was carrying interest of 12.5% which was increased to 13.25% and was availed from the holding company for the purpose of refinancing the existing loan carrying higher interest rate of 13.5% and thus resulted in net savings which is permissible under 2014 and 2019 Tariff Regulations. It is submitted that appellant had explored the possibility of availing loan through various other lenders but they were not willing to make finances available for replacement of loan at better rates. Thus, according to



learned counsel, the Commission has erred in observing that the justification given by the appellant for availing ICD loan from group company namely Adani Transmission Limited does not appear convincing.

50. In support of his submissions, the learned counsel cited judgment of this Tribunal dated 28.11.2022 in Maharashtra Eastern Grid Power Transmission Company Limited v. Maharashtra Electricity Regulatory Commission (2022) SCC OnLine APTEL 121, in which it has been held that the interest on the basis of the actual loan portfolio also includes loan availed through ICD agreement.

51. On behalf of respondent No.10 there is no serious contest to the claims of the appellant under this head as well as to the applicability of judgment dated 28.11.2022 of this Tribunal in the case of Maharashtra Eastern Grid Power Transmission Company Limited (supra). However, on behalf of respondent No.11, it is argued that the said judgment is not applicable for the reason that same was rendered in the context of provisional tariff whereas the present case relates to truing up of the tariff. It is submitted that truing-up exercise is not an opportunity for the Central Commission or State Commission to rethink de-novo the basic principles and issues involved in the



initial projection of the revenue requirement of the licensee. It is further argued that the Inter Corporate Deposit is not a loan and hence the parameters set forth for taking and availing loan in the tariff regulations cannot be applied to such deposits.

52. We have considered the rival submissions of the learned counsels on this issue.

53. Regulations 19(1) and 26 of 2014 Tariff Regulations are relevant for our discussion on this issue and are extracted hereinbelow: -

*“19. **Debt-Equity Ratio:** (1) For a project declared under commercial operation on or after 1.4.2014, the debt equity ratio would be considered as 70:30 as on COD. If the equity actually deployed is more than 30% of the capital cost, equity in excess of 30% shall be treated as normative loan:*

Provided that:

(i) where equity actually deployed is less than 30% of the capital cost, actual equity shall be considered for determination of tariff:



(ii) the equity invested in foreign currency shall be designated in Indian rupees on the date of each investment:

(iii) any grant obtained for the execution of the project shall not be considered as a part of capital structure for the purpose of debt : equity ratio.

Explanation.-The premium, if any, raised by the generating company or the transmission licensee, as the case may be, while issuing share capital and investment of internal resources created out of its free reserve, for the funding of the project, shall be reckoned as paid up capital for the purpose of computing return on equity, only if such premium amount and internal resources are actually utilised for meeting the capital expenditure of the generating station or the transmission system.

...

26. Interest on loan capital: (1) The loans arrived at in the manner indicated in regulation 19 shall be considered as gross normative loan for calculation of interest on loan.



(2) The normative loan outstanding as on 1.4.2014 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2014 from the gross normative loan.

(3) The repayment for each of the year of the tariff period 2014-19 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of decapitalization of assets, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered upto the date of decapitalisation of such asset.

(4) Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be, the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.



(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized:

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered:

Provided further that if the generating station or the transmission system, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.

(6) The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

(7) The generating company or the transmission licensee, as the case may be, shall make every effort to re-finance the loan as long as it results in net savings on interest and in



that event the costs associated with such re-financing shall be borne by the beneficiaries and the net savings shall be shared between the beneficiaries and the generating company or the transmission licensee, as the case may be, in the ratio of 2:1.

(8) The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing.

(9) In case of dispute, any of the parties may make an application in accordance with the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 1999, as amended from time to time, including statutory re-enactment thereof for settlement of the dispute:

Provided that the beneficiaries or the long term transmission customers /DICs shall not withhold any payment on account of the interest claimed by the generating company or the transmission licensee during the pendency of any dispute arising out of re-financing of loan."



54. Similarly, Regulation 32 of 2019 Tariff Regulations is also material for our consideration and is quoted hereinbelow: -

“32. Interest on loan capital:

(1) The loans arrived at in the manner indicated in Regulation 18 of these regulations shall be considered as gross normative loan for calculation of interest on loan.

(2) The normative loan outstanding as on 1.4.2019 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.3.2019 from the gross normative loan.

(3) The repayment for each of the year of the tariff period 2019-24 shall be deemed to be equal to the depreciation allowed for the corresponding year/period. In case of de-capitalization of assets, the repayment shall be adjusted by taking into account cumulative repayment on a pro rata basis and the adjustment should not exceed cumulative depreciation recovered upto the date of de-capitalisation of such asset.



(4) Notwithstanding any moratorium period availed by the generating company or the transmission licensee, as the case may be, the repayment of loan shall be considered from the first year of commercial operation of the project and shall be equal to the depreciation allowed for the year or part of the year.

(5) The rate of interest shall be the weighted average rate of interest calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for interest capitalized:

Provided that if there is no actual loan for a particular year but normative loan is still outstanding, the last available weighted average rate of interest shall be considered; Provided further that if the generating station or the transmission system, as the case may be, does not have actual loan, then the weighted average rate of interest of the generating company or the transmission licensee as a whole shall be considered.



(6) The interest on loan shall be calculated on the normative average loan of the year by applying the weighted average rate of interest.

(7) The changes to the terms and conditions of the loans shall be reflected from the date of such re-financing.”

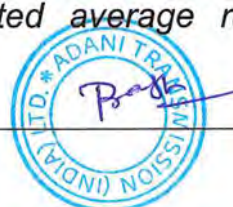
55. Regulation 26(1) read along with Regulation 19(1) of 2014 Tariff Regulations provides that 70% of capital cost of project is to be considered as normative loan for calculation of interest on loan. Regulation 26(2) of these Regulations provides that normative loan outstanding as on 01.04.2014 shall be worked out by deducting the cumulative repayment as admitted by the Commission up to 31.03.2014 from the gross normative loan. Regulation 26(3) of the 2014 Tariff Regulations states that the repayment during each year of the Control Period shall be deemed to be equal to the depreciation allowed for that year. Regulation 26(5) states that the rate of interest shall be the WAROI calculated on the basis of the actual loan portfolio after providing appropriate accounting adjustment for the interest capitalized.

56. Regulation 32(1), (2), (3), (4) and (5) of 2019 Tariff Regulations is also on the same lines.



57. We do not find anything in any of these Regulations to support the calculation of the interest on loan by the Commission using the lowest WAROI amongst the 5 years of 2014-2019 tariff period and 2019-2024 control period. These Regulations clearly provide that Weighted Average Rate should be calculated on the basis of actual loan portfolio which implies that the existing loan portfolio needs to be considered. We find that ironically the Central Commission in subsequent order dated 08.01.2022 passed in petition No.408/GT/2020 titled Maithon Power Ltd. v. Tata Power Delhi Distribution Limited & Ors. has itself held that WAROI should be calculated on the basis of actual loan portfolio. We reproduce the relevant portion of the said order hereinbelow:

“124. The Petitioner has re-financed the long-term loan to reduce the interest burden on the beneficiaries. For the purpose of calculation of interest on normative loan, the Petitioner has considered interest rate of original loan, and not the new rate after refinancing. The Petitioner has submitted that in case of refinancing, the application of Regulation 26(5) of the 2014 Tariff Regulations would require the computation of ‘weighted average rate of



interest' using the actual loan portfolio/ schedule, along with interest rate that would have been applicable for original loan term. In our view, Regulation 26(5) of the 2014 Tariff Regulations provides that the weighted average rate should be calculated on the basis of actual loan portfolio, which implies the consideration of the 'existing loan' portfolio. As such, the applicable rate is the rate after such refinancing of loan. This was decided by the Commission while working out the interest on normative loan in order dated 26.12.2017 in Petition No.152/GT/2015 and subsequently in Commission's order dated 25.4.2019 in Petition No.16/RP/2018 filed by the Petitioner. ..."

(Emphasis supplied)

58. We also find that this Tribunal was confronted with an identical issue in appeal Nos.18/2019 and 173/2022 titled Maharashtra Eastern Grid Power Transmission Company Limited v. Maharashtra Electricity Regulatory Commission (2022) SCC OnLine APTEL 121 decided on 28.11.2022 and it was held as under: -



“50. As seen from the above, there is no requirement for a transmission licensee to get its loan agreements approved by MERC before availing a loan facility, as such, there was no occasion for the Appellant to approach MERC for seeking approval to the conditions prescribed in the ICD Agreement.

51. Accordingly, are not convinced with the contention of MERC that the Appellant ought to have informed MERC regarding the terms of the ICD Agreement.

52. The observation of MERC that the Appellant has not acted diligently in its efforts to refinance its loan from the open market, we observe that ICD interest rate was lesser than refinancing rate of interest in open market from the documents as placed before us.

53. The Appellant placed before us the letter dated 04.02.2016 received from SBI wherein the rate of refinancing of debt is claimed as 13.5% to 14%, also as per PFC rate schedule dated 07.11.2013, the rate of interest for



finance to Private Sector Borrowings to Transmission Sector entities for 3 years was 13.50%. Additionally, advanced Rs. 100 Crore sanctioned by HDFC Bank vide its letter dated 07.10.2017 indicted the applicable rate of interest as 13.25%.

54. As submitted by the Appellant, the interest rate for ICD as taken from ATL was initially fixed at 12.50% p.a., which was later increased to 13.25% p.a., in terms of ICD Agreement as there was delay in obtaining regulatory approvals which resulted into increased risk, the rate of interest would have remained at 12.50% p.a. if MERC would have approved the capital cost etc. Even otherwise, when the interest rate for the ICD was enhanced to 13.25%, the same was still less than 13.50% p.a. which was the earlier rate of interest for the loan availed from SBI.

55. As above, we cannot agree with the observation recorded by MERC that the Appellant made no efforts to refinance its loan from the open market as the arguments



made and the documents placed before us, it is clear that the rate of interest offered in the ICD Agreement was lesser than the rate of interest being offered by other lenders.

...

58. In the present case, the relevant Regulations provide for considering the actual weightage average rate of interest computed on the basis of actual loan portfolio at the time of trying-up and is applicable for all types of long term loans as the Regulations do not differentiate loans obtained from public sector or private sector or ICDs, also there is no restriction upon the licensee under the regulatory framework to obtain long term finance from group entity.

59. Therefore, the claim of the Appellant that the interest on the basis of the actual loan portfolio of the Appellant which also includes the loan availed through ICD Agreement at the rate of 13.25% p.a. in line with the relevant Regulations has merit and is allowed."

59. The legal principle enunciated by this Tribunal in the above noted judgment is squarely applicable to the instant case also. We do not find any



force in the argument put forward on behalf of the 11th respondent that the said judgment is not applicable for the reason that the same was rendered in the context of provisional tariff whereas the present case relates to the truing up of the tariff. Law laid down by this Tribunal is applicable and binding upon the Commission not only in the petitions relating to provisional tariff but also has to be applied in all the petitions where the situation demands and the issue regarding the treatment to be given to Inter Corporate Deposit loan arises. It would be preposterous to say that a legal principle laid down by this Tribunal in a judgment related to provisional tariff petition has to be applied only to the petitions for provisional tariff and cannot be applied to the petitions for truing up of the tariff.

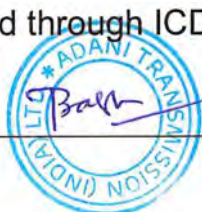
60. Another argument raised on behalf of respondent No.11 that the principles applied at the time of disposing off provisional tariff petition have to be applied at the time of truing up of the tariff also and the truing up exercise does not permit the Commission to rethink de-novo the basic principles as well as issues involved in the initial revenue requirement projections of the licensee, is also found devoid of any merit. In case the Commission, at the time of truing up exercise, finds that any legal principle laid down by this Tribunal or by the Hon'ble Supreme Court has been ignored at the time of



determining Annual Revenue Requirement projection of the licensee, the Commission is duty bound to rectify the error by applying correct legal principle at the time of truing up stage. Any patent error in the provisional tariff order cannot be perpetuated and it is bounden duty of the Commission to rectify the error by applying correct legal principle at the truing up stage.

61. Further, we are unable to accept the findings of the Commission that the justification given by the appellant for securing ICD loan from a group company rather than from a bank or financial institution is unconvincing. Undisputably, the ICD loan was carrying interest @12.5% and it was later on increased to 13.25% which was less than the interest rate of 13.5% payable on the existing loan. Manifestly, the rate of interest on the ICD loan was lower than the rate of interest payable on the existing loan by the appellant and therefore, we cannot agree to the observation of the Commission that the justification given by appellant for securing ICD loan from a group company is not convincing.

62. Hence, we set aside the findings of the Commission on this issue and allow the claim of the appellant by holding that the Weighted Average Rate of Interest (WAROI) shall be calculated on the basis of actual loan portfolio of the appellant which also includes the loan availed through ICD.



**Issue No.4: Disallowance of Depreciation for FY 2021-22 to FY 2023-24
for Asset-II.**

63. It is fairly submitted on behalf of the appellant that the issue regarding reduction of loan outstanding by cumulative depreciation till the date of license is pending adjudication before this Tribunal in RP No.3/2018 as well as before the Hon'ble Supreme Court in Civil Appeal with Diary No.4551/2018. Accordingly, we find it appropriate not to record any findings on this issue and leave it for adjudication in the above noted petition as well as civil appeal which decision shall be binding upon the parties.

**Issue No.5: Disallowance of Operations and Maintenance ("O&M")
expenses for the communication system for FY 2019-20 to FY 2023-24.**

64. The claim of the appellant under this head has been disallowed by the Commission vide impugned order on the ground that Power Line Carrier Communication (PLCC) equipment is a part of sub-station and since O&M for the sub-station has already been provided, separate O&M expenses cannot be granted for PLCC equipment.



65. Regulation 35(4) of 2019 Regulations is material on this aspect and is extracted hereinbelow: -

“(4) Communication system: The operation and maintenance expenses for the communication system shall be worked out at 2.0% of the original project cost related to such communication system. The transmission licensee shall submit the actual operation and maintenance expenses for truing up.”

66. This regulation clearly provides for separate O&M expenses for communication to be calculated at 2% of the original projected cost related to such communication system. However, the transmission licensee is required to submit the actual O&M expenses for truing up. The observation of the Commission that PLCC equipment has been considered as part of sub-station for which O&M expenses have already been granted, runs in the teeth of these regulations and thus, cannot be accepted. Therefore, we set aside the findings of the Commission with the direction that the O&M expenses for communication system be calculated separately in terms of the above noted Regulation 35(4) of 2019 Tariff Regulations. This exercise shall be completed by the Commission within one month from the date of this judgment.



Issue No.6: Disallowance of O&M expenses for Fixed Series Compensator (FSC) for FY 2019-20 to FY 2023-24.

67. Proviso(v) attached to Regulation 35(3)(a) of 2019 Tariff Regulations is relevant in this regard and is quoted hereinbelow: -

“Provided further that:

- (i) the operation and maintenance expenses for new HVDC bi-pole schemes commissioned after 1.4.2019 for a particular year shall be allowed pro-rata on the basis of normative rate of operation and maintenance expenses of similar HVDC bi-pole scheme for the corresponding year of the tariff period;*
- (ii) the O&M expenses norms for HVDC bi-pole line shall be considered as Double Circuit quad AC line;*
- (iii) the O&M expenses of ± 500 kV Mundra-Mohindergarh HVDC bipole scheme (2000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ± 500 kV Talchar-Kolar HVDC bi-pole scheme (2000 MW);*



(iv) the O&M expenses of ± 800 kV Champa-Kurukshetra HVDC bi-pole scheme (3000 MW) shall be on the basis of the normative O&M expenses for ± 800 kV, Bishwanath-Agra HVDC bi-pole scheme;

(v) the O&M expenses of ± 800 kV, Alipurduar-Agra HVDC bi-pole scheme (3000 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for ± 800 kV, Bishwanath-Agra HVDC bi-pole scheme; and

(v) the O&M expenses of Static Synchronous Compensator and Static Var Compensator shall be worked at 1.5% of original project cost as on commercial operation which shall be escalated at the rate of 3.51% to work out the O&M expenses during the tariff period. The O&M expenses of Static Synchronous Compensator and Static Var Compensator, if required, may be reviewed after three years.

(b) The total allowable operation and maintenance expenses for the transmission system shall be calculated by multiplying the number of sub-station bays, transformer



capacity of the transformer (in MVA) and km of line length with the applicable norms

for the operation and maintenance expenses per bay, per MVA and per km respectively.

(c) The Security Expenses and Capital Spares for transmission system shall be allowed separately after prudence check:

Provided that the transmission licensee shall submit the assessment of the security requirement and estimated security expenses, the details of year-wise actual capital spares consumed at the time of truing up with appropriate justification."

68. As per these regulations, O&M expenses for Static Synchronous Compensator and Static Var Compensator have to be worked at 1.5% of the original project cost as on the commercial operation date of the project which shall be enhanced to 3.51% to work out the O&M expenses during the tariff period.

69. The Commission has disallowed the claim of the appellant under this head on the ground that the appellant did not submit the details of capital cost as on commercial operation date of the project.



70. It is argued by the learned counsel for the appellant that during the pendency of the petition, the Commission had been asking additional information from it from time to time which was duly furnished by the appellant but the Commission never asked any details pertaining to capital cost of the project.

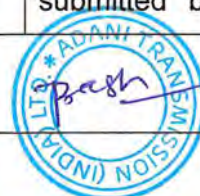
71. We feel that demand of justice would be met in case one opportunity is granted to the appellant to furnish the requisite details to the Commission for calculating O&M expenses for Fixed Series Compensator. Therefore, the issue is remanded back to the Commission for fresh consideration. The appellant shall furnish the requisite details of the capital cost of the project as on commercial operation date to the Commission within two weeks from the date of this judgment, and the Commission shall decide the issue within two weeks thereafter.

Conclusion:

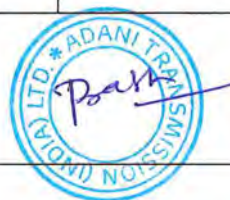
72. To sum-up, we reiterate our findings in brief on all the six issues hereunder: -



Sl. No.	Issue No. / Issue	Sub-issues	Our decision
1.	<u>Issue Nos.1&2: -</u> Disallowance of additional capital expenditure for the FY 2016-17 to FY 2018-19 and FY 2019-20 to FY 2023-24.	<u>Asset-I</u>	The claim of the appellant is allowed subject to the prudence check as to the admissibility as per the documents submitted / to be submitted by the appellant. This exercise shall be completed by the Commission within one month from the date of this judgment.
		Truck mounted hotline washing machine for insulators	
		Silicon Paint Coating on High Voltage Insulators	
		Installation of Security System	
		Emergency restoration system	
		Replacement of porcelain insulators	
		Expenditure towards installation of Automatic Power Factor Correction (APCF) Panel	The findings of the Commission on this issue are affirmed.
		<u>Asset-II</u>	The claim of the appellant is allowed subject to the prudence check as to the admissibility as per the documents submitted / to be submitted by the appellant.
		Expenses for Installation of Security System	



			This exercise shall be completed by the Commission within one month from the date of this judgment.
		Replacement of Battery Bank	The findings of the Commission on this issue are affirmed.
		Upgradation of Power Line Carrier Communication (PLCC)	The claim of the appellant is allowed subject to the prudence check as to the admissibility as per the documents submitted / to be submitted by the appellant. This exercise shall be completed by the Commission within one month from the date of this judgment.
		Liabilities to meet award of arbitration for Land at Sami.	We remand the claim of the appellant to be decided afresh within two months from the date of this judgment, after directing the appellant to submit requisite documents in support of the claim.



		Expenditure towards change of possession of Land.	We grant one more opportunity to the appellant to submit documents in support of this claim to the Commission within two weeks from the date of this judgment after which the Commission shall decide such claim afresh within four weeks.
		Expenditure towards emergency restoration system.	We allow the claim of the appellant under this head subject to prudence check as to the admissibility as per the documents submitted / to be submitted by the appellant. This exercise shall be completed by the Commission within one month from the date of this judgment.
2.	<u>Issue No.3:-</u> Disallowance of actual rate of interest on long-term loan for 2014-	---	We set aside the findings of the Commission and allow the claim of the appellant by holding that the Weighted Average Rate of Interest (WAROI) shall be calculated on the basis of actual loan portfolio of the appellant which



	2019 & 2019-2024 control period.		also includes the loan availed through ICD.
3.	<u>Issue No.4:-</u> Disallowance of Depreciation for FY 2021-22 to FY 2023-24 for Asset-II.	---	We do not record any findings on this issue since the same is pending adjudication before this Tribunal in review proceeding and Hon'ble Supreme Court in a Civil Appeal. The decision therein shall be binding upon the parties.
4.	<u>Issue No.5:-</u> Disallowance of Operations and Maintenance ("O&M") expenses for the communication system for FY 2019-20 to FY 2023-24.	---	We set aside the findings of the Commission with the direction that the O&M expenses for communication system be calculated separately in terms of the Regulation 35(4) of 2019 Tariff Regulations within one month from the date of this judgment.



5.	<u>Issue No.6:-</u> Disallowance of O&M expenses for Fixed Series Compensator (FSC) for FY 2019-20 to FY 2023-24.	---	The issue is remanded back to the Commission for fresh consideration. The appellant shall furnish the requisite details of the capital cost of the project as on commercial operation date to the Commission within two weeks from the date of this judgment, and the Commission shall decide the issue within two weeks thereafter.

73. Needless to add here that the timelines given hereinabove shall be followed by the Commission.

74. The appeal stands disposed in above terms.

Pronounced in the open court on this the 18th day of November, 2024.

(Virender Bhat)
Judicial Member

(Sandesh Kumar Sharma)
Technical Member (Electricity)

✓
~~REPORTABLE / NON-REPORTABLE~~
tp





ग्रिड-इंडिया
GRID-INDIA

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(भारत सरकार का उद्यम)

GRID CONTROLLER OF INDIA LIMITED

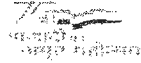
(A Government of India Enterprise)

[formerly Power System Operation Corporation Limited (POSOCO)]

उत्तर क्षेत्रीय भार प्रेषण केन्द्र / Northern Regional Load Despatch Centre

Annexure-6

382



कार्यालय : 18-ए, शाहीद जेत सिंह सनसनवाल मार्ग, कटवारिया सराय, नई दिल्ली - 110016
Office : 18-A, Shaheed Jeet Singh Sansanwal Marg, Katwaria Sarai, New Delhi-110016
CIN : U40105DL2009GOI188682. Website : www.nrlc.in, E-mail : nrlc@grid-india.in, Tel : 011- 26854015, 40224603

Certificate Number: GRID-INDIA/NRLDC/SO/423/1330

Date: 24-05-2023

Certificate of completion of Trial Operation of 400kV Main Bay 20C03 and 20C01 of 400 kV Mohindergarh(APL)- Bhiwani(PG) ckt 3 & 4 at HVDC Mahindergarh(APL).

Reference:

1. Adani Power Ltd (Adani Transmission India Ltd.) Communication dated 20 Mar 2023 12:37, 20 Mar 2023 15:13, 20 Mar 2023 19:55, 20 Mar 2023 22:21, 21 Mar 2023 16:58, 21 Mar 2023 20:39, regarding the submission of pre charging documents for -
i) 400kV Main Bay 20C03 of 20C03C and 400 kV Mohindergarh Bhiwani ckt 3 at HVDC Mahindergarh(APL)
ii) 400kV Main Bay 20C01 of 20C01A and 400 kV Mohindergarh Bhiwani ckt 4 at HVDC Mahindergarh(APL)
2. Real time code issued by NRLDC on request of Adani Power Ltd (Adani Transmission India Ltd.) Real Time Code No- 2303- 5182,5183.
3. POWERGRID , Communication dated 25 March 2023 15:19, 29 March 2023 18:57, 13 April 2023 19:50 and 18 May 2023 15:57 regarding the submission of post charging documents.

Based on above references, it is hereby certified that the following Transmission elements have been successfully completed the trial operation:

Name of the Transmission Asset:	1. 400kV Main Bay 20C03 of 400 kV Mohindergarh(APL)- Bhiwani(PG) ckt 3 at HVDC Mahindergarh(APL). 2. 400kV Main Bay 20C01 of 400 kV Mohindergarh(APL)-Bhiwani(PG) ckt 4 at HVDC Mahindergarh(APL).
Owner of the Transmission Asset:	Adani Transmission India Ltd(ATIL)
Date and Time of Energization for commencement of successful trial run operation	1. 22.03.2023-20:00 hrs. 2. 22.03.2023- 02:00 hrs.
Date/Time of completion of successful trial run operation	1. 23.03.2023-20:00 hrs. 2. 23.03.2023- 02:00 hrs.

Note:

As informed by licensee, these bays were already in charged conditions. There is one and half breaker scheme at Mohindergarh(APL) and complete dia¹⁵ in charged condition.

This certificate is being issued in accordance with Regulation 6.3(A)(5) of CERC(Indian Electricity Grid Code) Regulation,2010 to certify successful completion of trial operation of transmission element. Usage of this certificate for any other purpose is prohibited.

R K Porwal

Executive Director

Place : New Delhi

Copy to :

- I. Head, Adani Transmission India Ltd(ATIL).
- II. Member Secretary, NRPC, New Delhi
- III. Executive Director, N¹DC, New Delhi



पंजीकृत कार्यालय : प्रथम तल, बी-9, कुतुब इंस्टीट्यूशनल एरिया, कटवारिया सराय, नई दिल्ली - 110016
Registered Office : First Floor, B-9, Qutab Institutional Area, Katwaria Sarai, New Delhi -110016

CERTIFICATE

To,
Central Electricity Regulatory Commission (CERC)
7th Floor, Tower B, World Trade Centre,
Nauroji Nagar, New Delhi – 110029.

Adani Transmission (India) Limited ("the Company") (CIN :U40101GJ2013PLC077700) is a public limited company incorporated and domiciled in India and has its registered office at Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S.G.Highway, Khodiyar, Ahmedabad, Gujarat, 382421 India) has informed to us that the Company is required to furnish, the details of Total Project Cost incurred (showing the details of components of assets) as on commercial operation date ("COD") 30th September 2013 for the Company's 400 KV D/C Mundra - Dehgam Transmission Line including associated system ("Transmission Line from Mundra to Dehgam"), to the Central Electricity Regulatory Commission ("CERC").

The Statement showing the details of Total Project Cost incurred as at 30th September, 2013 for the Company's, 400 KV D/C Mundra – Dehgam Transmission Line including associated system as per **Annexure A** attached herewith is prepared by the management of the Company. Our responsibility is to examine the evidence supporting the information given in **Annexure- A**.

Total Project Cost incurred (showing the details of components of assets) as at 30th September, 2013 as per Annexure A have been verified on the basis of verification of books of account (which books of account has been audited upto 31st March, 2013) and other relevant records maintained and furnished to us by the Company and as per the information and explanations given to us by the Company.

This Certificate is issued at the request of the Management of the Company for submission to the CERC and should not be used for any other purpose without our prior written consent.

Place: Ahmedabad
Date: 25.11.2024



For, **Dharmesh Parikh & Co LLP**
Chartered Accountants
FRN.: 112054W/W100725

Chirag & Sindhu

(CA. CHIRAG SHAH)
Partner
Membership No. 122510
UDIN: 24122510BKATGO3295



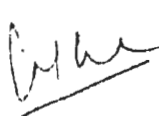
Annexure - A

Adani Transmission (India) Limited

Statement showing the details of Total Project Cost incurred as at 30th September, 2013 for the Company's
400 KV D/C Mundra - Dehgam Transmission Line including associated system

Sr. No.	Particulars	Amount (Rs. Crore)
1	Building and Civil Work	11.28
2	PLCC Communication	0.96
3	Land - Free Hold	7.24
4	Land - Lease Hold	4.01
5	Sub- Station	106.16
6	Fixed Series Compensation (FSC)	39.24
7	Transmission Line	404.51
	Total	573.40

For, Adani Transmission (India) Limited



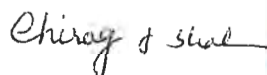

Authorised Signatory

Date: 25th November 2024

For, DHARMESH PARIKH & CO LLP

Chartered Accountants

Firm Reg. No.: 112054W/W100725




Chirag Shah

Partner

Membership No.: 122510

UDIN : 24122510BKATG03295

Date: 25th November 2024

Place : Ahmedabad



Appendix-I

PART-III

**TARIFF FILING FORMS (TRANSMISSION &
COMMUNICATION SYSTEM)**

**FOR TRUE UP OF TARIFF
FY 2019-20 to FY 2023-24**



Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System

Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM- 1	Summary of Tariff	Y
FORM- 1A	Summary of Asset level cost	Y
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	Y
FORM-3	Normative parameters considered for tariff computations	Y
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	NA
FORM- 4A	Statement of Capital cost	NA
FORM- 4B	Statement of Capital Works in Progress	NA
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	NA
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	NA
FORM-5A	Break-up of Construction/Supply/Service packages	NA
FORM-5B	Details of all the assets covered in the project	NA
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	NA
FORM- 7	Statement of Additional Capitalisation after COD	Y
FORM- 7A	Financing of Additional Capitalisation	Y
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	NA
FORM- 8	Calculation of Return on Equity	Y
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	Y
FORM-9D	Loans in Foreign Currency	NA
FORM-9E	Calculation of Interest on Normative Loan	Y
FORM- 10	Calculation of Depreciation Rate	Y
FORM- 10A	Statement of Depreciation	Y
FORM- 10B	Statement of De-capitalisation	NA
FORM- 11	Calculation of Interest on Working Capital	Y
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	NA
FORM- 13	Breakup of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM- 15	Summary of issue involved in the petition	Y
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	Y



Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System

Other Information/ Documents		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity	NA
6	Copies of the BPTA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable.	NA
	List of supporting documents to be submitted:	
	a. Detailed Project Report	
	b. CPM Analysis	
	c. PERT Chart and Bar Chart	
	d. Justification for cost and time Overrun	
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10	Any other relevant information, (Please specify)	

Note1: Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy disc.



Summary of Tariff**Name of the transmission Asset:**

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)

Sr. No.	Particulars	Form No	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1.1	Depreciation	Form 10A	19,743	19,744	19,750	19,774	19,793
1.2	Interest on Loan	Form 9E	20,386	17,772	15,167	12,590	10,002
1.3	Return on Equity ¹	Form 8	21,830	21,832	21,839	21,864	21,884
1.4	Interest on Working Capital	Form 11	1,143	1,032	938	911	1,002
1.5	O & M Expenses	Form 2	4,780	4,845	5,110	5,264	5,253
	Total		67,882	65,224	62,804	60,403	57,935

Note: This Form is a summary form and the Data to this from should flow from other base forms.



Petitioner



Summary of Tariff

Name of the transmission Asset: ± 500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)

A) Summary of Capital Cost, Means of Finance of the Asset

Particulars	Summary of Actual / Projected Capital Expenditure incurred						As on 31.03.2024
	As on 31.03.2019	2019-20	2020-21	2021-22	2022-23	2023-24	
Transmission Line	149,688	-	-	-	171	-	149,859
Substation equipments	206,884	-	3	117	409	22	207,435
Free hold Land	5,770	-	-	-	-	-	5,770
Leasehold Land	1,031	-	-	-	-	-	1,031
PLCC	2,447	-	-	-	-	-	2,447
Furniture / Fixture	101	-	-	-	-	-	101
Building & Civil Works	21,477	-	-	77	7	14	21,575
Office Equipments	39	13	26	28	93	-	199
Total	387,437	13	29	222	680	36	388,417



Petitioner

Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset: ± 500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

1) Transmission lines

Sr. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length KM	Line length CKM	Date of Commercial operation	Covered in the present petition	
									Yes/No	If No, Petition No.
1	Mundra - Mohindergarh	HVDC	Bipole	Quad Bersimis	± 500 kV	990	1,980	Ckt 1: 12.07.2012 Ckt 2: 09.10.2012	Y	-
2	Electrode line at Mundra Station (Mundra-Mandvi)	AC	D/C	Twin Moose	33 kV	32	64	09.10.2012	Y	-
3	Electrode line at Mohindergarh Station (Mohindergarh-Kaithal)	AC	D/C	Twin Moose	33 kV	187	374	09.10.2012	Y	-
4	Mohindergarh - Bhiwani	AC	D/C	Twin Moose	400 kV	50	100	12.07.2012	Y	-
5	Mohindergarh - Dhanonda	AC	D/C	Quad Moose	400 kV	5	10	09.08.2012	Y	-

Summary:

O&M Expenses for Transmission lines covered in the instant petition	2019-20	2020-21	2021-22	2022-23	2023-24
Normative rate of O&M as per Regulation - Double Circuit (Bundled conductor with four or more sub-conductors)	1.32	1.37	1.42	1.47	1.52
Length in km	995	995	995	995	995
O&M Claimed	1,315	1,361	1,409	1,459	1,509
Normative rate of O&M as per Regulation - Double Circuit (Twin & Triple Conductor)	0.88	0.91	0.94	0.98	1.01
Length in km	269	269	269	269	269
O&M Claimed	237	245	254	265	272

2) Substations

Sr. No.	Name of Sub-station	Type of Substation	Voltage level kV	No. of transformers / Reactors/ SVC etc. (with capacity)	No. of Bays		MVA Capacity	Date of Commercial Operation	Covered in the present Petition	
					400 kV	400 kV			Yes/No	If No, petition No.
1	HVDC Bipole Station									
1.1	HVDC Terminal Station at Mundra	HVDC Bipole	± 500 kV	a) AC sub filter - (8x120 MVAR + 3 x 150 MVAR capacitors) b) 2 x 1494 MVA Converter Transformer (7 x 498 MVA 1-ph including 1 spare unit)	Pole I & II	-	-	Pole 1: 12.07.2012 Pole 2: 09.10.2012	Y	-
1.2	HVDC Terminal Station at Mohindergarh	HVDC Bipole	± 500 kV	a) AC sub filter - (8x120 MVAR + 5x150 MVAR capacitors) b) 2 x 1494 MVA Converter Transformer (7x498 MVA 1-ph including 1 spare unit)	Pole I & II	-	-	Pole 1: 12.07.2012 Pole 2: 09.10.2012	Y	-
2	AC Substations									
2.1	Mundra Switchyard	AC	400 kV	1 No. 3 x 42 MVAR	9	630	630	12.07.2012	Y	-
2.2	Mohindergarh Switchyard	AC	400kV	-	4	-	-	12.07.2012	Y	-
2.3	Bhiwani (PG) Substation	AC	400kV	-	2	-	-	12.07.2012	Y	-
2.4	Bhiwani (PG) Substation	AC	400kV	-	2	-	-	24.03.2023	Y	-

Summary:

O&M Expenses for substation covered in the instant petition	2019-20	2020-21	2021-22	2022-23	2023-24
Normative rate of O&M as per Regulation	2,468.00	2,555.00	2,643.00	2,738.00	2,834.00
NO. of HVDC substation	1	1	1	1	1
O&M Claimed	1,974	2,044	2,116	2,190	2,267
Normative rate of O&M as per Regulation	32.15	33.28	34.45	35.66	36.91
No. of Bays	15	15	15	15	17
O&M Claimed	482	499	517	536	627
Normative rate of O&M as per Regulation	0.36	0.37	0.38	0.40	0.41
MVA Capacity	630	630	630	630	630
O&M Claimed	226	234	242	251	259

Note: 1. Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bays, line bays, reactor bays shall be considered separately for purpose of O&M expenses.
2. The MVA Capacity shall exclude the capacity of reactor. FSE, Stat Com



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

3) Communication System:

S. No.	Name of Communication System	Type of Communication System	Technical Particulars	Number/ Length	Date of Commercial Operation	Covered in the present Petition	
						Yes/No	If No, Petition No.
1	Mundra Mohindergarh OPGW	OPGW	SDH network	997km		Yes	-
2	Mundra Mohindergarh Back up link/lease line	BSNL Lease line	PDH network	NA		Yes	-
3	Mohindergarh NRLDC BSNL lease line	Lease line	Point to Point communication	120km		Yes	-
4	Mohindergarh NRLDC TATA lease line	Lease line	wire less	120km		Yes	-
5	HVDC station communication	Inter station communication	udp and TCP protocol for fast ethernet interface	With in the station		Yes	-
6	AC System communication	Siemens SCADA	SCADA system, SICAM WINCC	System-1, System-2 ,with in the station		Yes	-
7	DC system communication	Siemens SCADA	symatic WINCC DC system	pole control, Station Control		Yes	-
8	SPS communication	OPGW for Mohindergarh - Bhiwani	SDH network	45km		Yes	-
9	Dhanoda OPGW communication	OPGW	Point to Point communication FRM	5.6km		Yes	-

S. No.	Name of Communication System	Type of Communication System	Technical Particulars	Number/ length	Date of Commercial operation	Covered in the present petition	If No, petition No.
1	OPGW	OPGW	SDH network	997 km		Yes	-
2	BSNL Lease Line	BSNL Lease Line	PDH network	997 km		Yes	-
3	AC System communication	Siemens SCADA	SCADA system, SICAM WINCC	System-1, System-2 ,with in the station		Yes	-
4	DC system communication	Siemens SCADA	symatic WINCC DC system	pole control, Station Control		Yes	-

Summary:

O & M Expenses for the Communication System covered in the instant	2019-20	2020-21	2021-22	2022-23	2023-24
O&M expenses as per regulations	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost
Estimated O&M Expense	48.93	48.93	48.93	48.93	48.93
The original project cost / Asset related to the communication system	2447				

3) Summary of O&M Expenses claim:

Sr. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Normative O&M						
	Transmission Line	1,552	1,606	1,663	1,721	1,781
	Substation	2,682	2,777	2,875	2,978	3,154
	Communication system	48.93	48.93	48.93	48.93	48.93
	Total Normative O&M	4,284	4,432	4,586	4,748	4,984
B) O&M Claimed under Regulation 35 (3)(c)						
	Security Expenses	359	354	304	298	270
	Capital Spares consumed	138	59	219	218	-
	Total	497	413	523	516	270
	Total O&M Expenses claimed	4,780	4,845	5,110	5,264	5,253

Note: The security expenses and Capital Spares are to be submitted on estimated basis for the purpose of O&M expenses. In case of additional security deployed, the petitioner shall indicate the same. The actual security and Capital Spares expenses to be provided at the time of true up



PART-III
FORM-3

Normative Parameters considered for tariff calculations

Name of the transmission Asset: ±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

Particulars	Unit	Year Ending March				
		2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	7	8
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Base Rate of Return on Equity on Additional Capitalization after Cut-off Date ¹	%					
Tax Rate	%	17.47%	17.47%	17.47%	17.47%	17.47%
Effective Tax Rate ²						
Grossed-up Rate of Return on Equity	%	18.78%	18.78%	18.78%	18.78%	18.78%
Target Availability - HVDC System	%	95%	95%	95%	95%	95%
Target Availability - AC System	%	98%	98%	98%	98%	98%
Normative O&M per km	Rs. Lakh	As shown in Form 2				
Normative O&M per bay	Rs. Lakh					
Normative O&M per MVA	Rs. Lakh					
Spares for WC as % of O&M	%	15%	15%	15%	15%	15%
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on first day of financial year ³	%	12.05%	11.25%	10.50%	10.50%	12.00%

1. The additional capitalization on account of Change-in-Law to be excluded and To be equivalent to Weighted Average Rate of Loan in accordance with first Proviso to Regulation 30.

2. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

3. For Tariff Petition, it should be 1.4.2019, while for True-up Petition, it should be 1st April of the respective financial years.


Petitioner

PART-III
FORM- 7

Statement of Additional Capitalisation after COD

Name of the transmission Asset: ±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

Commercial Operation Date: 1.10.2013

A) ACE for the year : _____ @ (Actual/Projected)

(Amount in Rs. Lakh)

FY 2019-20				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	13.00	-	-	13.00
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	13.00	-	-	13.00

FY 2020-21				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	26.00	-	-	26.00
Transmission Line	-	-	-	-
Sub-Station	3.00	-	-	3.00
PLCC	-	-	-	-
Total	29.00	-	-	29.00

FY 2021-2022				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	77.00	-	-	77.00
Furniture & Fixtures	-	-	-	-
Office Equipments	28.00	-	-	28.00
Transmission Line	-	-	-	-
Sub-Station	117.00	-	-	117.00
PLCC	-	-	-	-
Total	222.00	-	-	222.00

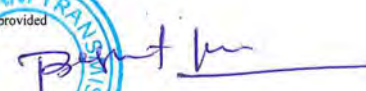
FY 2022-2023				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	7.00	-	-	7.00
Furniture & Fixtures	-	-	-	-
Office Equipments	93.00	-	-	93.00
Transmission Line	171.00	-	-	171.00
Sub-Station	409.00	-	-	409.00
PLCC	-	-	-	-
Total	680.00	-	-	680.00

FY 2023-2024				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	14.00	-	-	14.00
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	22.00	-	-	22.00
PLCC	-	-	-	-
Total	36.00	-	-	36.00

Note:

1. In case the true up, provide the ACE allowed in final tariff and enclose the copy of the tariff order(s).
2. Year wise details of the Work/Equipment proposed to be added after COD upto Cut-off Date/ beyond Cut-off Date has to be provided along with justification.

In case of de-capitalisation of assets details to be furnished in Form 10B.


(Petitioner)

Financing of Additional Capitalisation

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakhs)

Financial Year	Actual/Projected					Admitted				
	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	8	9	10	11	12
Amount capitalised in Work/Equipment	13.00	29.00	222.00	680.00	36.00	-	-			
Financing Details						-	-			
Loan	9.10	20.30	155.40	476.00	25.20	-	-			
Total Loan	9.10	20.30	155.40	476.00	25.20	-	-			
Equity *	3.90	8.70	66.60	204.00	10.80	-	-			
Total Equity	3.90	8.70	66.60	204.00	10.80	-	-			
Others	-	-	-	-	-	-	-			
Total	13.00	29.00	222.00	680.00	36.00	-	-			

Note:

1 Year 1 refers to Financial Year of COD in case of new elements. For existing elements it is from 2019-20 and Year 2, Year 3 etc. are the subsequent financial years respectively.

2 Loan details for meeting the additional capitalisation requirement should be given as per FORM-9 or 9(A) whichever is relevant.

*Includes equity brought through reserves and surplus and internal cash accruals



(Petitioner)

Calculation of Return on Equity at Normal Rate**Name of the transmission Asset:**±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani
(PG) & Mohindergarh-Dhanonda Transmission line with associated substations
and other equipments

(Amount in Rs. Lakh)

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	No. of Days in the year	366	365	365	365	366
	No. of days for which tariff claimed	366	365	365	365	366
	Opening Normative Equity	116,231	116,235	116,244	116,310	116,514
	Less: Adjustment in Equity*	-	-	-	-	-
	Adjustment during the year	-	-	-	-	-
	Net Opening Equity (Normal)	116,231	116,235	116,244	116,310	116,514
	Add: Increase in Equity due to addition during the year/period	4	9	67	204	11
	Less: Decrease due to de-capitalisation during the year	-	-	-	-	-
	Less: Decrease due to de-capitalisation during the year/period.	-	-	-	-	-
	Add: Increase due to discharges during the year/period	-	-	-	-	-
	Closing Normative Equity	116,235	116,244	116,310	116,514	116,525
	Average Normative Equity	116,233	116,239	116,277	116,412	116,520
	Rate of Return on Equity (Base Rate)	15.50%	15.50%	15.50%	15.50%	15.50%
	Reduced rate of 1% decided by commission under Regulation 30 (2) (if any)					
	Effective tax rate / MAT rate for the respective years	17.47%	17.47%	17.47%	17.47%	17.47%
	Rate of Return on Equity (Pre Tax)	18.78%	18.78%	18.78%	18.78%	18.78%
	Return on Equity on project cost till Cutoff date (Pre Tax)	21,830	21,832	21,839	21,864	21,884

Note: 1 Adjustment of equity as per Proviso to Regulation 18(3) of 2019 Tariff Regulations.

2. In respect to Equity infusion the Generating Company is required to substantiate with supporting documents such as board resolutions, balance sheet/ reconciliation statement with balance sheet.



(Petitioner)

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-
Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with

(Rs. Crs)

Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2					
1	Inter-Company Deposit					
	Net loan - Opening	1,723.20	1,226.73	1,049.07	263.46	363.09
	Add: Drawal(s) during the Year	-	29.51	-	-	-
	Less: Net Loan Movement	496.47	207.17	785.61	(99.63)	(44.16)
	Net loan - Closing	1,226.73	1,049.07	263.46	363.09	407.25
	Average Net Loan	1,474.97	1,137.90	656.26	313.27	385.17
	Rate of Interest on Loan on derived basis based on interest paid divided by Average of Opening and Closing Balance of Loan	13.25%	13.25%	13.25%	13.25%	13.25%
	Interest on loan	204.26	159.25	91.16	41.95	47.85
2	Total Loan					
	Net loan - Opening	1,723.20	1,226.73	1,049.07	263.46	363.09
	Add: Drawal(s) during the Year	-	29.51	-	-	-
	Less: Net Loan Movement	496.47	207.17	785.61	(99.63)	(44.16)
	Net loan - Closing	1,226.73	1,049.07	263.46	363.09	407.25
	Average Net Loan	1,474.97	1,137.90	656.26	313.27	385.17
	Interest on loan	204.26	159.25	91.16	41.95	47.85
	Weighted average Rate of interest on Loans	13.25%	13.25%	13.25%	13.25%	13.25%



Calculation of Interest on Normative Loan

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) &
Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6
Gross Normative loan - Opening	271,206	271,215	271,235	271,391	271,867
Cumulative repayment of Normative Loan upto previous year	107,485	127,228	146,973	166,723	186,497
Net Normative loan - Opening	163,721	143,987	124,263	104,668	85,370
Increase/Decrease due to ACE/de- capitalization during the Year	9	20	155	476	25
Repayments of Normative Loan during the year	19,743	19,744	19,750	19,774	19,793
Net Normative loan - Closing	143,987	124,263	104,668	85,370	65,602
Average Normative Loan	153,854	134,125	114,465	95,019	75,486
Weighted average Rate of Interest of actual Loans	13.25%	13.25%	13.25%	13.25%	13.25%
Interest on Normative loan for the Period/Year	20,385.62	17,771.54	15,166.65	12,589.99	10,001.86

Note:

1. At the time of true-up net savings as a result of refinancing of loans may be provided along with adjustments of sharing



(Petitioner)

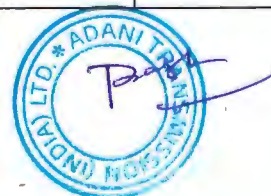
Calculation of Depreciation Rate

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda
Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2019	Additional Capitalization During FY 2019-20	Gross Block as on 31.03.2020	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2019-20
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	149,688	-	149,688	5.28%	7,904
2	Substation equipments	206,884	-	206,884	5.28%	10,923
3	Free hold Land	5,770	-	5,770	0.00%	-
4	Leasehold Land	1,031	-	1,031	3.34%	34
5	PLCC	2,447	-	2,447	6.33%	155
6	Furniture / Fixture	101	-	101	6.33%	6
7	Building & Civil Works	21,477	-	21,477	3.34%	717
8	Office Equipments	39	13	52	6.33%	3
TOTAL		387,437	13	387,450	5.10%	19,743
Weighted Average Rate of Depreciation (%)						5.10%
Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2020	Additional Capitalization During FY 2020-21	Gross Block as on 31.03.2021	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2020-21
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	149,688	-	149,688	5.28%	7,904
2	Substation equipments	206,884	3	206,887	5.28%	10,924
3	Free hold Land	5,770	-	5,770	0.00%	-
4	Leasehold Land	1,031	-	1,031	3.34%	34
5	PLCC	2,447	-	2,447	6.33%	155
6	Furniture / Fixture	101	-	101	6.33%	6
7	Building & Civil Works	21,477	-	21,477	3.34%	717
8	Office Equipments	52	26	78	6.33%	4
TOTAL		387,450	29	387,479	5.10%	19,744
Weighted Average Rate of						5.10%
Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2021	Additional Capitalization During FY 2021-22	Gross Block as on 31.03.2022	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2021-22
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	149,688	-	149,688	5.28%	7,904
2	Substation equipments	206,887	117	207,004	5.28%	10,927
3	Free hold Land	5,770	-	5,770	0.00%	-
4	Leasehold Land	1,031	-	1,031	3.34%	34
5	PLCC	2,447	-	2,447	6.33%	155
6	Furniture / Fixture	101	-	101	6.33%	6
7	Civil Works & Building	21,477	77	21,554	3.34%	719
8	Office Equipments	78	28	106	6.33%	6
TOTAL		387,479	222	387,701	5.10%	19,750
Weighted Average Rate of Depreciation (%)						5.10%



Calculation of Depreciation Rate**Name of the transmission Asset:**±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda
Transmission line with associated substations and other equipments

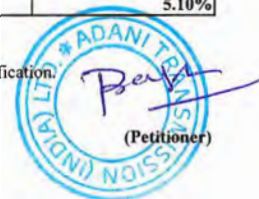
(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2022	Additional Capitalization During FY 2022-23	Gross Block as on 31.03.2023	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2022-23
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	149,688	171	149,859	5.28%	7,908
2	Substation equipments	207,004	409	207,413	5.28%	10,941
3	Free hold Land	5,770	-	5,770	0.00%	-
4	Leasehold Land	1,031	-	1,031	3.34%	34
5	PLCC	2,447	-	2,447	6.33%	155
6	Furniture / Fixture	101	-	101	6.33%	6
7	Civil Works & Building	21,554	7	21,561	3.34%	720
8	Office Equipments	106	93	199	6.33%	10
TOTAL		387,701	680	388,381	5.10%	19,774
Weighted Average Rate of						5.10%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2023	Additional Capitalization During FY 2023-24	Gross Block as on 31.03.2024	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2023-24
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	149,859	-	149,859	5.28%	7,913
2	Substation equipments	207,413	22	207,435	5.28%	10,952
3	Free hold Land	5,770	-	5,770	0.00%	-
4	Leasehold Land	1,031	-	1,031	3.34%	34
5	PLCC	2,447	-	2,447	6.33%	155
6	Furniture / Fixture	101	-	101	6.33%	6
7	Civil Works & Building	21,561	14	21,575	3.34%	720
8	Office Equipments	199	-	199	6.33%	13
TOTAL		388,381	36	388,417	5.10%	19,793
Weighted Average Rate of						5.10%

Note:

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.



Statement of Depreciation

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1	Opening Capital Cost	387,437	387,450	387,479	387,701	388,381
2	Closing Capital Cost	387,450	387,479	387,701	388,381	388,417
3	Average Capital Cost	387,444	387,465	387,590	388,041	388,399
4	Freehold land	5,770	5,770	5,770	5,770	5,770
5	Rate of depreciation	5.10%	5.10%	5.10%	5.10%	5.10%
6	Depreciable value	343,513	343,539	343,738	344,350	344,383
7	Balance useful life at the beginning of the period					
8	Remaining depreciable value	236,027	216,310	196,766	177,627	157,886
9	Depreciation (for the period)	19,743	19,744	19,750	19,774	19,793
10	Depreciation (annualised)	19,743	19,744	19,750	19,774	19,793
11	Cumulative depreciation at the end of the period^	127,228	146,973	166,723	186,497	206,290
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	127,228	146,973	166,723	186,497	206,290



(Petitioner)

Calculation of Interest on Working Capital**Name of the transmission Asset:**

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)						
Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	7	8
1	O & M Expenses	398	404	426	439	438
2	Maintenance Spares	717	727	766	790	788
3	Receivables	8,369	8,041	7,743	7,447	7,123
4	Total Working Capital	9,484	9,172	8,935	8,675	8,349
5	Rate of Interest	12.05%	11.25%	10.50%	10.50%	12.00%
6	Interest on Working Capital	1,143	1,032	938	911	1,002



(Petitioner)

Summary of issue involved in the petition

1	Name of the Petitioner	Adani Transmission (India) Limited	
2	Petition Category	Transmission	
3	Tariff Period	2019-24	
4	Name of the Project	±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other	
5	Investment Approval date		
6	SCOD of the Project		
7	Actual COD of the project	01.10.2013	
8	Whether entire scope is covered in the present petition.	Yes	
9	No. of Assets covered in instant petition	1	
10	No. of Assets having time over run	Nil	
11	Estimated Project Cost as per IA		
12	Is there any REC? if so, provide the date	No	
13	Revised Estimated Project Cost (if any)	Nil	
14	Completion cost for all the assets covered in the instant petition		
15	No. of Assets covered in instant petition and having cost overrun	Nil	
16	Prayer in brief		
17	Key details and any Specific issue involved		
18	Respondents		
	Name of Respondents		
	PGCIL	WRPC	NLDC
	Daman and Diu Electricity Department	NRLDC	NDMC
	Goa State Electricity Board	BRPL	UPCL
	Heavy water Projects, Department of Atomic Energy	JPL	CEA
	Electricity Department UT Chandigarh	TPL	WRPC
	Kanpur Electricity Supply Company Limited	PTC india	PDD
	Haryana Power Purchase Centre	HVPNL	HPSEB
	Rajasthan Power Procurement Centre	GUVNL	NRPC
	Jodhpur Vidyut Vitran Nigam Limited	MSEDCL	RRVNL
	Jaipur Vidyut Vitran Nigam Limited	MPPMCL	GETCO
	Ajmer Vidyut Vitran Nigam Limited	MPAKVNL	PSPCL
	Delhi Transco Limited	BYPL	TPDDL
	North Central Railway	CSPDCL	UPPCL



Petitioner

Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.

Name of the Petitioner Adani Transmission (India) Limited
 Tariff Period 2019-24 2019-24
 Name of the Transmission Project $\pm$ 500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) &
 COD of the Project(if entire scope of project is completed) Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.

Sr. No.	Asset No.	COD	Cut off date	Summary of Actual / Projected Capital Cost						Capital Cost as on 31.03.2024
				As on 31-03-2019	2019-20	2020-21	2021-22	2022-23	2023-24	
1	Asset I	10/1/2013	3/31/2016	387,437	13	29	222	680	36	388,417
Total Capital Cost Claimed										388,417

B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.

Sr. No.	Asset No.	2019-20	2020-21	2021-22	2022-23	2023-24
1	Asset I	67,882	65,224	62,804	60,403	57,935
Total AFC for all the Assets		67,882	65,224	62,804	60,403	57,935



Appendix-I

PART-III

**TARIFF FILING FORMS (TRANSMISSION &
COMMUNICATION SYSTEM)**

**FOR TRUE UP OF TARIFF
FY 2019-20 to FY 2023-24**



**Checklist of Forms and other information/ documents for tariff filing for Transmission
System & Communication System**

Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM- 1	Summary of Tariff	Y
FORM- 1A	Summary of Asset level cost	Y
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	Y
FORM-3	Normative parameters considered for tariff computations	Y
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	NA
FORM- 4A	Statement of Capital cost	NA
FORM- 4B	Statement of Capital Works in Progress	NA
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	NA
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	NA
FORM-5A	Break-up of Construction/Supply/Service packages	NA
FORM-5B	Details of all the assets covered in the project	NA
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	Y
FORM- 7	Statement of Additional Capitalisation after COD	Y
FORM- 7A	Financing of Additional Capitalisation	Y
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	NA
FORM- 8	Calculation of Return on Equity	Y
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	Y
FORM-9D	Loans in Foreign Currency	NA
FORM-9E	Calculation of Interest on Normative Loan	Y
FORM- 10	Calculation of Depreciation Rate	Y
FORM- 10A	Statement of Depreciation	Y
FORM- 10B	Statement of De-capitalisation	NA
FORM- 11	Calculation of Interest on Working Capital	Y
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	NA
FORM- 13	Breakup of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM- 15	Summary of issue involved in the petition	Y
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	Y



Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System

Other Information/ Documents		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPTA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable.	NA
	List of supporting documents to be submitted:	
	a. Detailed Project Report	
	b. CPM Analysis	
	c. PERT Chart and Bar Chart	
	d. Justification for cost and time Overrun	
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021- 22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10	Any other relevant information, (Please specify)	

Note1: Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted shall also be furnished in the form of CD/Floppy disc.



Summary of Tariff

Name of the transmission Asset: 400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)							
Sr. No.	Particulars	Form No	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1.1	Depreciation	Form 10A	2,801	2,801	2,803	2,811	2,817
1.2	Interest on Loan	Form 9E	2,796	2,424	2,057	1,699	1,336
1.3	Return on Equity ¹	Form 8	3,048	3,048	3,050	3,058	3,064
1.4	Interest on Working Capital	Form 11	171	156	148	139	155
1.5	O & M Expenses	Form 2	931	966	1,163	1,039	1,072
	Total		9,746	9,395	9,221	8,747	8,443

Note: This Form is a summary form and the Data to this form should flow from other base forms.



Summary of Tariff**Name of the transmission Asset:** 400 kV D/c Mundra - Dehgam Transmission Line with Associated System**A) Summary of Capital Cost, Means of Finance of the Asset** (Amount in Rs. Lakh)

Particulars	Summary of Actual / Projected Capital Expenditure incurred						As on 31.03.2024
	As on 31.03.2019	2019-20	2020-21	2021-22	2022-23	2023-24	
Transmission Line	40,234	-	-	56	82	-	40,372
Substation equipments	11,929	-	-	29	106	-	12,064
Free hold Land	594	-	-	-	-	-	594
Leasehold Land	329	-	-	-	-	-	329
PLCC	79	-	-	-	-	-	79
Furniture / Fixture	-	-	-	-	-	-	-
Building & Civil Works	925	-	-	-	-	-	925
Office Equipments	-	-	-	-	22	-	22
Total	54,090	-	-	85	210	-	54,385



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

1) Transmission lines

Sr. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length KM	Line length CKM	Date of Commercial operation	Covered in the present petition	
									Yes/No	If No, Petition No.
1	Mundra - Sami Line	AC	D/C	Twin Moose	400kV	282	564	ckt-1: 04.07.2009 ckt-2:	Y	-
2	Sami - Dehgam Line	AC	D/C	Twin Moose	400kV	152	304	ckt-1: 04.07.2009 ckt-2:	Y	-

Summary:

O&M Expenses for Transmission lines covered in the instant petition	2019-20	2020-21	2021-22	2022-23	2023-24
Normative rate of O&M as per Regulation	0.88	0.91	0.94	0.98	1.01
Length in km	434	434	434	434	434
O&M Claimed	382	396	410	424	439

2) Substations

Sr. No.	Name of Sub-station	Type of Substation	Voltage level kV	No. of transformers / Reactors/ SVC etc. (with capacity)	No. of Bays		Date of Commercial Operation	Covered in the present Petition	
					400 kV	220 kV		Yes/No	If No, petition No.
1	Mundra Switchyard	AC	400 kV	a) 2 Nos. 315 MVA, 400/220kV ICT; b) Bus Reactor: 2 Nos. 3 x 27 MVAR	4	2	04.07.2009	Y	-
2	Sami Substation	AC	400 kV	Bus Reactor: 1 No. 1 x 50 MVAR; Line Reactor: 2 Nos. 1 x 50 MVAR FSC: 38% series compensation	7		04.07.2009	Y	-
3	Dehgam (PG) Substation	AC	400 kV		2		04.07.2009	Y	

Summary:

O&M Expenses for substation covered in the instant petition	2019-20	2020-21	2021-22	2022-23	2023-24
Normative rate of O&M as per Regulation	32.15	33.28	34.45	35.66	36.91
No. of Bays	13	13	13	13	13
O&M Claimed	417.95	432.64	447.85	463.58	479.83
Normative rate of O&M as per Regulation	22.51	23.30	24.12	24.96	25.84
No. of Bays	2	2	2	2	2
O&M Claimed	45.02	46.60	48.24	49.92	51.68

Note: 1. Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bays, line bays, reactor bays shall be considered separately for purpose of O&M expenses.
2. The MVA Capacity shall exclude the capacity of reactor, FSE, Stat Com

3) Communication System:

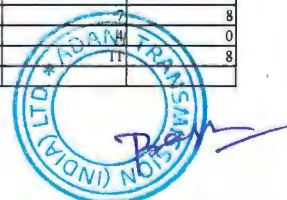
S. No.	Name of Communication System	Type of Communication System	Technical Particulars	Number/ length	Date of Commercial operation	Covered in the present petition	If No, petition No.
1	PLCC SAMI-MUNDRA-1	PLCC	Frequency	282 Km			
2	PLCC SAMI-MUNDRA-2	PLCC	Frequency	282 Km			
3	PLCC SAMI-DEHGAM-1	PLCC	Frequency	152 Km			
4	PLCC SAMI-DEHGAM-2	PLCC	Frequency	152 Km			
5	MUNDRA SPEECH	PABX	Frequency	282 Km			
6	DEHGAM SPEECH	PABX	Frequency	152 Km			
7	BSNL LEASE LINE	RTU	PAS-1 & PAS-2	1 No.			

Summary:

O&M Expenses for the Communication System covered in the instant	2019-20	2020-21	2021-22	2022-23	2023-24
O&M expenses as per regulations	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost
Estimated O&M Expense	1.57	1.57	1.57	1.57	1.57
The original project cost / Asset related to the communication system	78.75				

3) Summary of O&M Expenses claim:

Sr. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Normative O&M						
	Transmission Line	382	396	410	424	439
	Substation	463	479	496	514	532
	Communication system	2	2	2	2	2
	Total Normative O&M	847	877	907	939	972
B) O&M Claimed under Regulation 35 (3)(c)						
	Security Expenses	4	6	6	7	8
	Capital Spares consumed	0	0	163	4	0
	Total	4	6	169	11	8
C) O&M Claimed under Regulation 35 (3)(a)(vi)						



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset:		400 kV D/c Mundra - Dehgam Transmission Line with Associated System				
	FSC	80	83	86	89	92
Total O&M Expenses claimed		931	966	1163	1039	1072

Note: The security expenses and Capital Spares are to be submitted on estimated basis for the purpose of O&M expenses. In case of additional security deployed, the petitioner shall indicate the same. The actual security and Capital Spares expenses to be provided at the time of true up



Normative Parameters considered for tariff calculations

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

Year Ending March

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	7	8
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Base Rate of Return on Equity on Additional Capitalization after Cut-off Date ¹	%					
Tax Rate	%	17.47%	17.47%	17.47%	17.47%	17.47%
Effective Tax Rate ²						
Grossed-up Rate of Return on Equity	%	18.78%	18.78%	18.78%	18.78%	18.78%
Target Availability - HVDC System	%	95%	95%	95%	95%	95%
Target Availability - AC System	%	98%	98%	98%	98%	98%
Normative O&M per km	Rs. Lakh	As shown in Form 2				
Normative O&M per bay	Rs. Lakh					
Normative O&M per MVA	Rs. Lakh					
Spares for WC as % of O&M	%	15%	15%	15%	15%	15%
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on first day of financial year ³	%	12.05%	11.25%	10.50%	10.50%	12.00%

1. The additional capitalization on account of Change-in-Law to be excluded and To be equivalent to Weighted Average Rate of Loan in accordance with first Proviso to Regulation 30.

2. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

3. For Tariff Petition, it should be 1.4.2019, while for True-up Petition, it should be 1st April of the respective financial years.



Statement of Additional Capitalisation after COD

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

Commercial Operation Date:

1.10.2013

A) ACE for the year : _____ @ (Actual/Projected)

(Amount in Rs. Lakh)

FY 2019-20				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2020-21				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2021-2022				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	56.00	-	-	56.00
Sub-Station	29.00	-	-	29.00
PLCC	-	-	-	-
Total	85.00	-	-	85.00



Statement of Additional Capitalisation after COD

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

Commercial Operation Date:

1.10.2013

A) ACE for the year : _____@ (Actual/Projected)

(Amount in Rs. Lakh)

FY 2022-2023				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	22.00	-	-	22.00
Transmission Line	82.00	-	-	82.00
Sub-Station	106.00	-	-	106.00
PLCC	-	-	-	-
Total	210.00	-	-	210.00

FY 2023-2024				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

Note:

1. In case the true up, provide the ACE allowed in final tariff and enclose the copy of the tariff order(s).

2. Year wise details of the Work/Equipment proposed to be added after COD upto Cut-off Date/ beyond Cut- off Date has to be provided along with justification.

In case of de-capitalisation of assets details to be furnished in Form 10B.



Financing of Additional Capitalisation

Name of the transmission Asset: 400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

Financial Year	Actual/Projected					Admitted				
	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	8	9	10	11	12
Amount capitalised in Work/Equipment	-	-	85.00	210.00	-	-	-	-	-	-
Financing Details										
Loan	-	-	59.50	147.00	-	-	-	-	-	-
Total Loan	-	-	59.50	147.00	-	-	-	-	-	-
Equity *	-	-	25.50	63.00	-	-	-	-	-	-
Total Equity	-	-	25.50	63.00	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	85.00	210.00	-	-	-	-	-	-

Note:

1 Year 1 refers to Financial Year of COD in case of new elements. For existing elements it is from 2019-20 and Year 2, Year 3 etc. are the subsequent financial years respectively.

2 Loan details for meeting the additional capitalisation requirement should be given as per FORM-9 or 9(A) whichever is relevant.

*Includes equity brought through reserves and surplus and internal cash accruals



Calculation of Return on Equity at Normal Rate

Name of the transmission Asset:

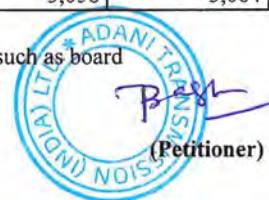
400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	No. of Days in the year	366	365	365	365	366
	No. of days for which tariff claimed	366	365	365	365	366
	Opening Normative Equity	16,227	16,227	16,227	16,252	16,315
	Less: Adjustment in Equity*	-	-	-	-	-
	Adjustment during the year	-	-	-	-	-
	Net Opening Equity (Normal)	16,227	16,227	16,227	16,252	16,315
	Add: Increase in Equity due to addition during the year/period	-	-	26	63	-
	Less: Decrease due to de-capitalisation during the year	-	-	-	-	-
	Less: Decrease due to de-capitalisation during the year/period.	-	-	-	-	-
	Add: Increase due to discharges during the year/period	-	-	-	-	-
	Closing Normative Equity	16,227	16,227	16,252	16,315	16,315
	Average Normative Equity	16,227	16,227	16,240	16,284	16,315
	Rate of Return on Equity (Base Rate)	15.50%	15.50%	15.50%	15.50%	15.50%
	Reduced rate of 1% decided by commission under Regulation 30 (2) (if any)					
	Effective tax rate / MAT rate for the respective years	17.47%	17.47%	17.47%	17.47%	17.47%
	Rate of Return on Equity (Pre Tax)	18.78%	18.78%	18.78%	18.78%	18.78%
	Return on Equity on project cost till Cutoff date (Pre Tax)	3,048	3,048	3,050	3,058	3,064

Note: 1 Adjustment of equity as per Proviso to Regulation 18(3) of 2019 Tariff Regulations.

2. In respect to Equity infusion the Generating Company is required to substantiate with supporting documents such as board resolutions, balance sheet/ reconciliation statement with balance sheet.



Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System:

		(Rs. Crs)				
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2					
1	Inter-Company Deposit					
	Net loan - Opening	1,723.20	1,226.73	1,049.07	263.46	363.09
	Add: Drawal(s) during the Year	-	29.51	-	-	-
	Less: Net Loan Movement	496.47	207.17	785.61	(99.63)	(44.16)
	Net loan - Closing	1,226.73	1,049.07	263.46	363.09	407.25
	Average Net Loan	1,474.97	1,137.90	656.26	313.27	385.17
	Rate of Interest on Loan on derived basis based on interest paid divided by Average of Opening and Closing Balance of Loan	13.25%	13.25%	13.25%	13.25%	13.25%
	Interest on loan	204.26	159.25	91.16	41.95	47.85
2	Total Loan					
	Net loan - Opening	1,723.20	1,226.73	1,049.07	263.46	363.09
	Add: Drawal(s) during the Year	-	29.51	-	-	-
	Less: Net Loan Movement	496.47	207.17	785.61	(99.63)	(44.16)
	Net loan - Closing	1,226.73	1,049.07	263.46	363.09	407.25
	Average Net Loan	1,474.97	1,137.90	656.26	313.27	385.17
	Interest on loan	204.26	159.25	91.16	41.95	47.85
	Weighted average Rate of interest on Loans	13.25%	13.25%	13.25%	13.25%	13.25%



Calculation of Interest on Normative Loan

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6
Gross Normative loan - Opening	37,863	37,863	37,863	37,922	38,069
Cumulative repayment of Normative Loan upto previous year	15,363	18,164	20,966	23,769	26,580
Net Normative loan - Opening	22,499	19,698	16,897	14,153	11,489
Increase/Decrease due to ACE/de- capitalization during the Year	-	-	60	147	-
Repayments of Normative Loan during the year	2,801	2,801	2,803	2,811	2,817
Net Normative loan - Closing	19,698	16,897	14,153	11,489	8,672
Average Normative Loan	21,099	18,298	15,525	12,821	10,081
Weighted average Rate of Interest of actual Loans	13.25%	13.25%	13.25%	13.25%	13.25%
Interest on Normative loan for the Period/Year	2,796	2,424	2,057	1,699	1,336

Note:

1. At the time of true-up net savings as a result of refinancing of loans may be provided along with adjustments of sharing.



(Petitioner)

Calculation of Depreciation Rate

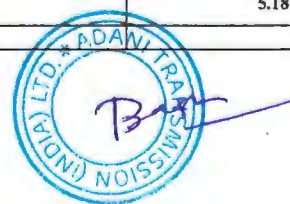
Name of the transmission Asset: 400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2019	Additional Capitalization During FY 2019-20	Gross Block as on 31.03.2020	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2019-20
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	40,234	-	40,234	5.28%	2,124
2	Substation equipments	11,929	-	11,929	5.28%	630
3	Free hold Land	594	-	594	0.00%	-
4	Leasehold Land	329	-	329	3.34%	11
5	PLCC	79	-	79	6.33%	5
6	Furniture / Fixture	-	-	-	6.33%	-
7	Building & Civil Works	925	-	925	3.34%	31
8	Office Equipments	-	-	-	6.33%	-
TOTAL		54,090	-	54,090	5.18%	2,801
Weighted Average Rate of Depreciation (%)						5.18%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2020	Additional Capitalization During FY 2020-21	Gross Block as on 31.03.2021	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2020-21
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	40,234	-	40,234	5.28%	2,124
2	Substation equipments	11,929	-	11,929	5.28%	630
3	Free hold Land	594	-	594	0.00%	-
4	Leasehold Land	329	-	329	3.34%	11
5	PLCC	79	-	79	6.33%	5
6	Furniture / Fixture	-	-	-	6.33%	-
7	Building & Civil Works	925	-	925	3.34%	31
8	Office Equipments	-	-	-	6.33%	-
TOTAL		54,090	-	54,090	5.18%	2,801
Weighted Average Rate of						5.18%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2021	Additional Capitalization During FY 2021-22	Gross Block as on 31.03.2022	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2021-22
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	40,234	56	40,290	5.28%	2,126
2	Substation equipments	11,929	29	11,958	5.28%	631
3	Free hold Land	594	-	594	0.00%	-
4	Leasehold Land	329	-	329	3.34%	11
5	PLCC	79	-	79	6.33%	5
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	925	-	925	3.34%	31
8	Office Equipments	-	-	-	6.33%	-
TOTAL		54,090	85	54,175	5.18%	2,803
Weighted Average Rate of Depreciation (%)						5.18%



Calculation of Depreciation Rate

Name of the transmission Asset: 400 kV D/c Mundra - Dehgam Transmission Line with Associated System

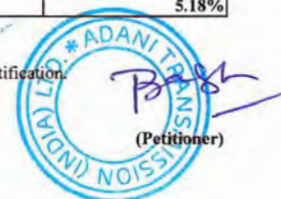
(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2022	Additional Capitalization During FY 2022-23	Gross Block as on 31.03.2023	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2022-23
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	40,290	82	40,372	5.28%	2,129
2	Substation equipments	11,958	106	12,064	5.28%	634
3	Free hold Land	594	-	594	0.00%	-
4	Leasehold Land	329	-	329	3.34%	11
5	PLCC	79	-	79	6.33%	5
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	925	-	925	3.34%	31
8	Office Equipments	-	22	22	6.33%	1
TOTAL		54,175	210	54,385	5.18%	2,811
Weighted Average Rate of						5.19%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2023	Additional Capitalization During FY 2023-24	Gross Block as on 31.03.2024	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2023-24
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	40,372	-	40,372	5.28%	2,132
2	Substation equipments	12,064	-	12,064	5.28%	637
3	Free hold Land	594	-	594	0.00%	-
4	Leasehold Land	329	-	329	3.34%	11
5	PLCC	79	-	79	6.33%	5
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	925	-	925	3.34%	31
8	Office Equipments	22	-	22	6.33%	1
TOTAL		54,385	-	54,385	5.18%	2,817
Weighted Average Rate of						5.18%

Note:

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.



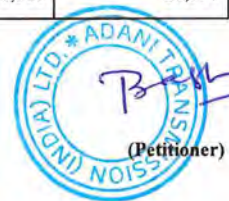
Statement of Depreciation

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1	Opening Capital Cost	54,090	54,090	54,090	54,175	54,385
2	Closing Capital Cost	54,090	54,090	54,175	54,385	54,385
3	Average Capital Cost	54,090	54,090	54,132	54,280	54,385
4	Freehold land	594	594	594	594	594
5	Rate of depreciation	5.18%	5.18%	5.18%	5.19%	5.18%
6	Depreciable value	48,146	48,146	48,223	48,412	48,412
7	Balance useful life at the beginning of the period					
8	Remaining depreciable value	32,783	29,982	27,257	24,643	21,832
9	Depreciation (for the period)	2,801	2,801	2,803	2,811	2,817
10	Depreciation (annualised)	2,801	2,801	2,803	2,811	2,817
11	Cumulative depreciation at the end of the period	18,164	20,966	23,769	26,580	29,397
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	18,164	20,966	23,769	26,580	29,397



Calculation of Interest on Working Capital

Name of the transmission Asset: 400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)						
Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	7	8
1	O & M Expenses	77.56	80.50	96.90	86.62	89.31
2	Maintenance Spares	139.61	144.91	174.41	155.92	160.76
3	Receivables	1,198.23	1,158.28	1,136.85	1,078.34	1,038.09
4	Total Working Capital	1,415.40	1,383.69	1,408.16	1,320.88	1,288.16
5	Rate of Interest	12.05%	11.25%	10.50%	10.50%	12.00%
6	Interest on Working Capital	170.56	155.67	147.86	138.69	154.58


(Petitioner)

Summary of issue involved in the petition

1	Name of the Petitioner	Adani Transmission (India) Limited	
2	Petition Category	Transmission	
3	Tariff Period	2019-24	
4	Name of the Project	400 kV D/c Mundra - Dehgam Transmission Line with Associated System	
5	Investment Approval date		
6	SCOD of the Project		
7	Actual COD of the project	01.10.2013	
8	Whether entire scope is covered in the present petition.	Yes	
9	No. of Assets covered in instant petition	1	
10	No. of Assets having time over run	Nil	
11	Estimated Project Cost as per IA		
12	Is there any REC? if so, provide the date	No	
13	Revised Estimated Project Cost (if any)	Nil	
14	Completion cost for all the assets covered in the instant petition		
15	No. of Assets covered in instant petition and having cost overrun	Nil	
16	Prayer in brief		
17	Key details and any Specific issue involved		
18	Respondents		
	Name of Respondents		
	PGCIL	WRPC	NLDC
	Daman and Diu Electricity Department	NRLDC	NDMC
	Goa State Electricity Board	BRPL	UPCL
	Heavy water Projects, Department of Atomic Energy	JPL	CEA
	Electricity Department UT Chandigarh	TPL	WRPC
	Kanpur Electricity Supply Company Limited	PTC india	PDD
	Haryana Power Purchase Centre	HVPNL	HPSEB
	Rajasthan Power Procurement Centre	GUVNL	NRPC
	Jodhpur Vidyut Vitran Nigam Limited	MSEDCL	RRVNL
	Jaipur Vidyut Vitran Nigam Limited	MPPMCL	GETCO
	Ajmer Vidyut Vitran Nigam Limited	MPAKVNL	PSPCL
	Delhi Transco Limited	BYPL	TPDDL
	North Central Railway	CSPDCL	UPPCL



Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.

Name of the Petitioner Adani Transmission (India) Limited
 Tariff Period 2019-24 2019-24
 Name of the Transmission Project 400 kV D/c Mundra - Dehgam Transmission Line with Associated System
 COD of the Project(if entire scope of project is completed)

A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.

Summary of Capital Cost as on COD and Additional Capital Expenditure Claimed for Assets Covered in the Asset Register										
Sr. No.	Asset No.	COD	Cut off date	Summary of Actual / Projected Capital Cost						Capital Cost as on 31.03.2024
				As on 31-03-2019	2019-20	2020-21	2021-22	2022-23	2023-24	
1	Asset II	10/1/2013	3/31/2016	54,090	-	-	85	210	-	54,385
Total Capital Cost Claimed										54,385

B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.

Sr. No.	Asset No.	2019-20	2020-21	2021-22	2022-23	2023-24
1	Asset II	9,746	9,395	9,221	8,747	8,443
Total AFC for all the Assets		9,745.62	9,394.93	9,221.11	8,746.55	8,443.15



Appendix-I

PART-III

**TARIFF FILING FORMS (TRANSMISSION &
COMMUNICATION SYSTEM)**

**FOR TRUE UP OF TARIFF
FY 2019-20 to FY 2023-24**



INDEX

PART-III

Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System

Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM- 1	Summary of Tariff	Y
FORM- 1A	Summary of Asset level cost	Y
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	Y
FORM-3	Normative parameters considered for tariff computations	Y
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	Y
FORM- 4A	Statement of Capital cost	Y
FORM- 4B	Statement of Capital Works in Progress	Y
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	Y
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	Y
FORM-5A	Break-up of Construction/Supply/Service packages	Y
FORM-5B	Details of all the assets covered in the project	Y
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	Y
FORM- 7	Statement of Additional Capitalisation after COD	Y
FORM- 7A	Financing of Additional Capitalisation	Y
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	NA
FORM- 8	Calculation of Return on Equity	Y
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	Y
FORM-9D	Loans in Foreign Currency	NA
FORM-9E	Calculation of Interest on Normative Loan	Y
FORM- 10	Calculation of Depreciation Rate	Y
FORM- 10A	Statement of Depreciation	Y
FORM- 10B	Statement of De-capitalisation	NA
FORM- 11	Calculation of Interest on Working Capital	Y
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	NA
FORM- 13	Breakup of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM- 15	Summary of issue involved in the petition	Y
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	Y
Other Information/ Documents		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPTA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	NA
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021- 22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10	Any other relevant information, (Please specify)	

Notel: Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format and any other information submitted shall also be furnished in the form of CD/Floppy disc.



Summary of Tariff

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)							
Sr. No.	Particulars	Form No	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7	8
1.1	Depreciation	Form 10A	-	-	1.29	254.24	270.38
1.2	Interest on Loan	Form 9E	-	-	2.26	429.59	423.19
1.3	Return on Equity ¹	Form 8	-	-	1.38	271.31	288.53
1.4	Interest on Working Capital	Form 11	-	-	0.06	12.53	14.71
1.5	O & M Expenses	Form 2	-	-	-	-	-
	Total		-	-	4.99	967.66	996.81

Note: This Form is a summary form and the Data to this form should flow from other base forms.



PART-III
FORM- 1

Summary of Tariff

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line
Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)

A) Summary of Capital Cost, Means of Finance of the Asset

Particulars	Summary of Actual / Projected Capital Expenditure incurred						As on 31.03.2024
	As on 31.03.2019	2019-20	2020-21	2021-22	2022-23	2023-24	
Transmission Line	-	-	-	-	-	-	-
Substation equipments	-	-	-	4,509	611	-	5,121
Free hold Land	-	-	-	-	-	-	-
Leasehold Land	-	-	-	-	-	-	-
PLCC	-	-	-	-	-	-	-
Furniture / Fixture	-	-	-	-	-	-	-
Building & Civil Works	-	-	-	-	-	-	-
Office Equipments	-	-	-	-	-	-	-
Total	-	-	-	4,509	611	-	5,121



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

1) Transmission lines

Sr. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line length KM	Line length CKM	Date of Commercial operation	Covered in the present petition	
									Yes/No	If No, Petition No.

Summary:

O&M Expenses for Transmission lines covered in the instant petition	2019-20	2020-21	2021-22	2022-23	2023-24
Normative rate of O&M as per Regulation - Double Circuit (Bundled conductor with four or more sub-conductors)	1.32	1.37	1.42	1.47	1.52
Length in km	-	-	-	-	-
O&M Claimed	-	-	-	-	-
Normative rate of O&M as per Regulation - Double Circuit (Twin & Triple Conductor)	0.88	0.91	0.94	0.98	1.01
Length in km	-	-	-	-	-
O&M Claimed	-	-	-	-	-

2) Substations

Sr. No.	Name of Sub-station	Type of Substation	Voltage level kV	No. of transformers / Reactors / SVC etc. (with capacity)	No. of Bays		MVA Capacity	Date of Commercial Operation	Covered in the present Petition	
					400 kV	400 kV			Yes/No	If No, petition No.
1	Mohindergarh Switchyard	AC	400kV	12 ohm Series Line reactors in mohindergarh-dhanonda 400kV D/C Line (Ckt-I) at Mohindergarh end				30-Mar-22	Y	-
2	Mohindergarh Switchyard	AC	400kV	12 ohm Series Line reactors in mohindergarh-dhanonda 400kV D/C Line (Ckt-II) at Mohindergarh end				30-Mar-22	Y	-

Summary:

O&M Expenses for substation covered in the instant petition	2019-20	2020-21	2021-22	2022-23	2023-24
Normative rate of O&M as per Regulation	2,468.00	2,555.00	2,645.00	2,738.00	2,834.00
NO. of HVDC substation					
O&M Claimed	-	-	-	-	-
Normative rate of O&M as per Regulation	32.15	33.28	34.45	35.66	36.91
No. of Bays					
O&M Claimed	-	-	-	-	-
Normative rate of O&M as per Regulation	0.36	0.37	0.38	0.40	0.41
MVA Capacity					
O&M Claimed	-	-	-	-	-

Note: 1. Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bays, line bays, reactor bays shall be considered separately for purpose of O&M expenses.
2. The MVA Capacity shall exclude the capacity of reactor, FSE, Stat Com



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

3) Communication System:

S. No.	Name of Communication System	Type of Communication System	Technical Particulars	Number/ Length	Date of Commercial Operation	Covered in the present Petition	
						Yes/No	If No, Petition No.

S. No.	Name of Communication System	Type of Communication System	Technical Particulars	Number/ length	Date of Commercial operation	Covered in the present petition	If No, petition No.

Summary:

O&M Expenses for the Communication System covered in the instant	2019-20	2020-21	2021-22	2022-23	2023-24
O&M expenses as per regulations	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost
Estimated O&M Expense	-	-	-	-	-
The original project cost / Asset related to the communication system					

3) Summary of O&M Expenses claim:

Sr. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
A) Normative O&M						
	Transmission Line	-	-	-	-	-
	Substation	-	-	-	-	-
	Communication system	-	-	-	-	-
	Total Normative O&M	-	-	-	-	-
B) O&M Claimed under Regulation 35 (3)(c)						
	Security Expenses					
	Capital Spares consumed					
	Total	-	-	-	-	-
	Total O&M Expenses claimed	-	-	-	-	-

Note: The security expenses and Capital Spares are to be submitted on estimated basis for the purpose of O&M expenses. In case of additional security deployed, the petitioner shall indicate the same. The actual security and Capital Spares expenses to be provided at the time of true up



Normative Parameters considered for tariff calculations

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line
Circuit-I & II at Mohindergarh end

Year Ending March

Particulars	Unit	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	7	8
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Base Rate of Return on Equity on Additional Capitalization after Cut-off Date ¹	%					
Tax Rate	%	17.472%	17.472%	17.472%	17.472%	17.472%
Effective Tax Rate ²						
Grossed-up Rate of Return on Equity	%	18.78%	18.78%	18.78%	18.78%	18.78%
Target Availability - HVDC System	%	95%	95%	95%	95%	95%
Target Availability - AC System	%	98%	98%	98%	98%	98%
Normative O&M per km	Rs. Lakh	As shown in Form 2				
Normative O&M per bay	Rs. Lakh					
Normative O&M per MVA	Rs. Lakh					
Spares for WC as % of O&M	%	15%	15%	15%	15%	15%
Receivables in Days for WC	Days	45	45	45	45	45
Bank Rate as on first day of financial year ³	%	12.05%	11.25%	10.50%	10.50%	12.00%

1. The additional capitalization on account of Change-in-Law to be excluded and To be equivalent to Weighted Average Rate of Loan in accordance with first Proviso to Regulation 30.

2. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 31 i.e. actual tax (or estimated tax)/gross income, where gross income refers the profit before tax.

3. For Tariff Petition, it should be 1.4.2019, while for True-up Petition, it should be 1st April of the respective financial years.



Petitioner

Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)

A) Details of All the Asset Covered under the Scope of the Project

Asset No. & Asset Name description	COD Considered for Tariff	Effective COD for the project as whole (Refer C)	Weighted Average useful life of the Project	Lapsed useful Life of the project as on 01-04-2019	Balance useful Life of the Project as on 01.04.2019
±500 kV bipole Mundra-Mohindergarh, 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments	3/30/2022	3/30/2022	-	-	-

B) Details as on 01-04-2019 for determination of Single Tariff for the Projects Commissioned prior to 01.04.2019

Particulars as on 31-03-2019 after true up of 2014-19 Period	Asset - III
	Total as on 01.04.2019 for the Project as a whole
Capital Cost as on 31.03.2019	
Cumulative Depreciation as on 31-03-2019	
Debt Equity Ratio as on 31.03.2019	
Gross Equity for Normative ROE as on 31.03.2019	-
Gross Loan as on 31.03.2019	-
Cumulative Re-payment of Loan as on 31.03.2019	-

D) Weighted Average useful Life of the Project as whole

Particulars	Capital Cost as on 01-04-2019 after true up of 2014-19	Useful life	Weighted Cost
Freehold Land	-	0	-
Leasehold Land	-	25	-
Building & Civil Works	-	25	-
Furniture & Fixtures	-	25	-
Office Equipments	-	25	-
Transmission Line	-	35	-
Sub-Station	-	25	-
PLCC	-	15	-
Total	-	-	-
Weighted Average life = Total Weighted Cost/Total Combine Cost (Rounded off to get complete year)			

E) Lapsed weighted average useful life of the project & Balance weighted average Useful life

This refers to the No. of completed years from the Effective COD till the last day of the previous tariff period (i.e. 31.03.2019)	
i) Effective COD	3/30/2022
ii) Last day of the previous tariff control period	3/31/2019
iii) No. of Completed years lapsed as on 01.04.2019 (ii)-(i)	-
iv) Remaining useful life (in year) (WAL-lapsed year)	-



PART-III
FORM-4A**Statement of Capital Cost**

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Rs. in Lacs)

Particulars	As on relevant date ¹				
	2019-20	2020-21	2021-22	2022-23	2023-24
Capital Cost					
A a) Opening Gross Block Amount (as on 1st April)	-	-	4,404.45	4,509.45	5,120.85
b) Amount of IDC, FC, FERV & Hedging cost included in A(a) above	-	-	353.00	458.00	630.28
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in A(a)	-	-	-	-	-
B a) Addition in Gross Block Amount during the period	-	-	105.00	611.40	-
b) Amount of capital liabilities in B(a) above	-	-	-	439.12	-
b) Amount of IDC, FC, FERV & Hedging cost included in B(a) above	-	-	105.00	172.28	-
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in B(a)	-	-	-	-	-
C a) Closing Gross Block Amount (as on 31st March)	-	-	4,509.45	5,120.85	5,120.85
b) Amount of IDC, FC, FERV & Hedging cost included in C(a) above	-	-	458.00	630.28	630.28
c) Amount of IEDC (excluding IDC, FC, FERV & Hedging cost) included in C(a)	-	-	-	-	-

(Rs. in Lacs)

Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Flow of liability for the Asset					
D Opening Balance of Liabilities	-	-	-	611.40	-
Add: Liability from ACE	-	-	716.40	-	-
Discharge of liability by payment and claimed as ACE	-	-	105.00	611.40	-
Reversal/ Cancellation	-	-	-	-	-
Closing Balance of Admitted Liability	-	-	611.40	-	-

Note: Above data are as per the Annual Audited Accounts.

1. Relevant date/s means date of COD of unit/s, station and financial year start date and end date



Petitioner

Statement of Capital Works in Progress

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Rs. in Laacs)

	As on relevant date ¹		
	Accrual Basis	Un-discharged Liabilities	Cash Basis
A a) Opening CWIP Amount as per books	-	-	-
b) Amount of capital liabilities in A(a) above	-	-	-
c) Amount of IDC, FC, FERV & Hedging cost included in A(a) above	-	-	-
B a) Addition/Adjustmnt in CWIP during the period	5,120.85	716.40	4,404.45
b) Amount of capital liabilities in B(a) above	4,490.57	439.12	4,051.45
c) Amount of IDC, FC, FERV & Hedging cost included in B(a) above	630.28	277.28	353.00
C a) Capitalization/Transfer to Fixed asset of CWIP Amount during the period	-	-	-
b) Amount of capital liabilities in C(a) above	-	-	-
c) Amount of IDC, FC, FERV & Hedging cost included in C(a) above	-	-	-
D a) Closing CWIP Amount as per books	5,120.85	716.40	4,404.45
b) Amount of capital liabilities in D(a) above	4,490.57	439.12	4,051.45
c) Amount of IDC, FC, FERV & Hedging cost included in D(a) above	630.28	277.28	353.00

1. Relevant date/s means date of COD of unit/s, station and financial year start date and end date



PART-III
FORM-4C**Abstract of Capital Cost Estimates and Schedule of Commissioning for the New projects**

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

New Projects**Capital Cost Estimates**

Board of Director/ Agency approving the Capital cost estimates:	Rs. 50 Crore	
Date of approval of the Capital cost estimates:	11/21/2019	
	Present Day Cost	Completed Cost
Price level of approved estimates		
Foreign Exchange rate considered for the Capital cost estimates		
<u>Capital Cost excluding IDC & FC</u>		
Foreign Component, if any (In Million US \$ or the relevant Currency)	-	-
Domestic Component (Rs. lacs.)		4,404.45
Capital cost excluding IDC, FC, FERV & Hedging cost (Rs. Lacs)		4,404.45
<u>IDC, FC, FERV & Hedging cost</u>		
Foreign Component, if any (In Million US \$ or the relevant Currency)	-	-
Domestic Component (Rs. lacs.)		716.40
Total IDC,FC, FERV & Hedging cost (Rs. Lacs)		716.40
Rate of taxes & duties considered		
<u>Capital cost Including IDC, FC, FERV & Hedging cost</u>		
Foreign Component, if any (In Million US \$ or the relevant Currency)	-	-
Domestic Component (Rs. lacs)		5,120.85
Total Capital cost Including IDC & FC (Rs. Lacs)		5,120.85
<u>Schedule of Commissioning</u>		
COD of element	30-Mar-22	30-Mar-22
COD of Unit-II/ Block-II		
COD of last Unit/ Block		

Note:

1. Copy of approval letter should be enclosed.
2. Details of Capital cost are to be furnished as per FORM-5 or 5A as applicable.
3. Details of IDC & Financing Charges are to be furnished as per FORM-12 (B).



Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

SL.No.	Break Down	Cost in Rs. Lakh								Admitted Cost	Capital Work in Progress as per Books of Account as on COD
		As per original Estimates	As per Revised Cost Estimates (if any)	Actual Capital Expenditure (Gross Block) as on COD as per Books of Account	The portion Capital cost included in col. 5 which is not eligible for transmission tariff (eg. Grant, other business etc.3	Projected/actual cost of Deferred work to be capitalised after COD but before cut-off date	Variation between actual Cost and IA/RCE cost as on COD	Reasons for Variation	Un-Discharge Liabilities included in Col. 5		
1	2	3	4	5	6	7	8 = (5 - 6 + 7) - (3 or 4)	9	10	11	12
A	TRANSMISSION LINE										
1.0	Preliminary works										
1.1	Design & Engineering			-			-				
1.2	Preliminary investigation, Right of way, forest clearance, PTCC, general civil works etc.			-			-				
1.3	Total Preliminary works	-	-	-		-	-				
2.0	Transmission Lines material										
2.1	Towers Steel			-			-				
2.2	Conductor			-			-				
2.3	Earth Wire			-			-				
2.4	Insulators			-			-				
2.5	Hardware Fittings			-			-				
2.6	Conductor & Earthwire accessories			-			-				
2.7	Spares			-			-				
2.8	Erection, Stringing & Civil works including foundation			-			-				
2.9	Total Transmission Lines material	-	-	-		-	-				
3.0	Taxes & Duties										
3.1	Custom Duty			-			-				
3.2	Other Taxes & Duties			-			-				
	Total Taxes & Duties	-	-	-		-	-				
	Total - Transmission lines	-	-	-		-	-				
B.	SUBSTATIONS										
4.0	Preliminary works & land										
4.1	Design & Engineering			-			-				
4.2	Land			-			-				
4.3	Site preparation			-			-				
	Total Preliminary works & land	-	-	-		-	-				
5.0	Civil Works										
5.1	Control Room & Office Building including HVAC						-				
5.2	Township & Colony						-				
5.3	Roads and Drainage						-				
5.4	Foundation for structures			275.13			275.13				
5.5	Misc. civil works			-			-				
	Total Civil Works	-	-	275.13		-	275.13				
6.0	Substation Equipments										
6.1	Switchgear (CT, PT, Circuit Breaker, Isolator etc)			-			-				
6.2	Transformers			-			-				
6.3	Compensating Equipment(Reactor, SVCs etc)			3,710.98		439.12	4,150.10				
6.4	Control, Relay & Protection Panel						-				
6.5	PLCC						-				
6.6	HVDC package						-				
6.7	Bus Bars/ conductors/insulators						-				
6.8	Outdoor lighting						-				
6.9	Emergency D.G. Set						-				
6.10	Grounding System						-				
6.11	Structure for switchyard						-				
	Total Substation Equipments	-	-	3,710.98		439.12	4,150.10				
7.00	Spares						-				
8.0	Taxes and Duties										
8.1	Custom Duty						-				
8.2	Other Taxes & Duties						-				
8.3	Total Taxes & Duties	-	-	-		-	-				
	Total (Sub-station)	-	-	3,986.11		439.12	4,425.23				
9.0	Communication System										
9.1	Preliminary Works						-				
9.2	Communication System Equipments						-				
9.3	Taxes and Duties						-				
	Total Communication System	-	-	-		-	-				
10.0	Cost of Plant & Machinery	-	-	3,986.11		439.12	4,425.23				
11.0	Construction and pre-commissioning expenses										
11.1	Site supervision & site admn. etc.			65.34			65.34				



Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

Sl.No.	Break Down	Cost in Rs. Lakh								Admitted Cost	Capital Work in Progress as per Books of Account as on COD
		As per original Estimates	As per Revised Cost Estimates (if any)	Actual Capital Expenditure (Gross Block) as on COD as per Books of Account	The portion Capital cost included in col. 5 which is not eligible for transmission tariff (eg. Grant, other business etc.)	Projected/actual cost of Deferred work to be capitalised after COD but before cut-off date	Variation between actual Cost and IAV/CE cost as on COD	Reasons for Variation	Un-Discharge Liabilities included in Col. 5		
1	2	3	4	5	6	7	8 = (5 - 6 + 7) - (3 or 4)	9	10	11	12
11.2	Tools and Plants						-				
11.3	construction Insurance						-				
	Total Construction and pre commissioning expenses	-	-	65.34	-	-	65.34				
12.0	Overheads										
12.1	Establishment						-				
12.2	Audit & Accounts						-				
12.3	Contingency						-				
	Total Overheads	-	-	-	-	-	-				
13.0	IDC, FC, FERV & Hedging Cost										
13.1	Interest During Construction (IDC)			353.00		277.28	630.28				
13.2	Financing Charges (FC)						-				
13.3	Foreign Exchange Rate Variation (FERV)						-				
13.4	Hedging Cost						-				
	Total of IDC, FC, FERV & Hedging Cost	-	-	353.00	-	277.28	630.28				
14	Capital cost including IDC, FC, FERV & Hedging Cost	-	-	4,404.45	-	716.40	5,120.85				

Summary of Capital Cost as on COD

Particulars	Cost in Rs. Lakh								Un-discharged liability included in 8	Capital Cost on Cash basis for tariff as on COD / as on 01-04-2019
	Plant & Machinery Cost including initial spare but excluding IDC&IEDC	Initial Spares Capitalised	IEDC Capitalised	IDC Capitalised	Loan FERV	Gross Block as per books of Account as on COD	Deduction from Gross Block	Gross block meant for tariff as on COD / 01.04.2019 (after deductions)		
	1	2	3	4	5	6 = 1 + 3 + 4 + 5	7	8 = 6 - 7	9	10 = 8 - 9
Land (Freehold Land)						-	-	-		-
Land (Leasehold)						-	-	-		-
Building & Civil Works						-	-	-		-
Transmission Line	4,051.45			353.00		4,404.45		4,404.45		4,404.45
Sub-Station						-	-	-		-
PLCC						-	-	-		-
Total Capital Cost as per Books of Account	4,051.45	-	-	353.00	-	4,404.45	-	4,404.45	-	4,404.45
Less: Un-discharged liabilities										
Total Capital Cost Claimed for tariff	4,051.45	-	-	353.00	-	4,404.45	-	4,404.45	-	4,404.45
% of IDC / IEDC on the base of (Plant & Machinery cost including initial spare as per Books of Account)										
Means of Finance										
Equity	1,215.44	-	-	245.02	-	1,460.45		1,460.45		1,460.45
Debt	2,836.02	-	-	107.98	-	2,944.00		2,944.00		2,944.00

1 In case of cost variation, a detailed note giving reasons of such variation should be submitted clearly indicating whether such cost over-run was beyond the control of the transmission licensee.

2 Separate details of free hold/lease hold land should be submitted.

3 Deduction from Gross Block includes the Grant Received as on COD, Gross block as on COD which pertains to other business, Adjustment of excess initial spare etc.

4 The capital cost as per books of accounts and liability should be supported by Auditor Certificate.



Break-up of Construction/Supply/Service Packages

Name of the transmis: 12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

Sl.No.	Name/No. of Construction/supply/service package	Scope of works (in line with head of cost break-ups as applicable)	Whether awarded through ICB/DCB/ Departmentally/ Deposit Work, etc.	No. of bids received	Date of Award	Date of Start of Work	Date of Completion of Work	Value of Award ² in (Rs. Lakh).	Firm or With Escalation in prices	Actual expenditure till the completion or up to COD whichever is earlier (Rs. Lakh)	Taxes & Duties and IEDC (Rs. Lakh)	IDC, FC, FERV & Hedging cost (Rs. Lakh)	Sub-Total (Rs. Lakh)
1.0	12 ohm Series	12 ohm Series Line reactors in mohindergarh-dhanonda 400kV D/C Line (Ckt-I & II) at Mohindergarh end	RTM	-	04-Apr-20	3-Sep-20	30-Mar-22	4,490.57	Firm	3,423.00	628.45	353.00	4,404.45
2.0													
3.0													
4.0													
5.0													
6.0													

Note.

1 The scope of work in any package should be indicated in conformity of cost break-up in Form-5 to the extent possible.

2 If there is any package, which need to be shown in Indian Rupee and foreign currency(ies), the same should be shown separately along with the currency, the exchange rate and the date e.g. Rs. 800 Lakh. + US\$ 5m=Rs. 4300 Lakh. at US\$=Rs.70 as on say 01.04.2019.



Name of the transmission Asset:	12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

[illegible]

 **Petitioner**

PART-III
FORM- 6Financial Package upto COD

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

A) Actual Cash Expenditure upto COD

Particulars	Rs. Lakhs					
	Oct 20 to Dec 20	Jan 21 to Mar 21	Apr 21 to Jun 21	Jul 21 to Sep 21	Oct 21 to Dec 21	Jan 22 to Mar 22
Actual Payment to contractors/ suppliers during the quarter	339.40	764.10	2,400.40	428.99	29.13	441.79
Cumulative Cash payments at the end of the Quarter	339.40	1,103.49	3,503.90	3,932.89	3,962.02	4,403.81
% of cumulative cash Payment on Total Payment up to Actual COD	8%	25%	80%	89%	90%	100%

B) Financial Package

by Financial Package

(Rs. Lakh)

	Financial Package as Approved		Financial Package as on COD*		As Admitted on COD	
	Currency and Amount ³		Currency and Amount ³		Currency and Amount ³	
1	2	3	4	5	6	7
Loan	INR	NA	INR	2,944.00	INR	
Equity-	INR	NA	INR	1,460.45	INR	
Total Equity	INR	NA	INR	1,460.45	INR	-
Debt:Equity Ratio				66:34		
Additional Capitalization						
	Normative					
Add Cap for 2019-20						
Debt						
Equity						
Total						
Add Cap for 2020-21						
Debt						
Equity						
Total						
Add Cap for 2021-22						
Debt						
Equity	105.00					
Total	105.00					
Add Cap for 2022-23						
Debt						
Equity	611.40					
Total	611.40					
Add Cap for 2023-24						
Debt						
Equity						
Total						

* Normative D:E considered as on CoD

** Actual D:E ratio is 69.57:30.43

Note:

* Say Rs. 800 Lakh + US\$ 5m = Rs. 4300 Lakh including US\$5m at an exchange rate of US\$=Rs. 70.

For Example: US\$5m, etc.

\$ In case of foreign loans exchange rate considered on date of commercial operation.



PART-III
FORM- 7Statement of Additional Capitalisation after COD

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

Commercial Operation Date:

30-Mar-22

A) ACE for the year : _____ @ (Actual/Projected)

(Amount in Rs. Lakh)

FY 2021-22				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	105.00	-	-	105.00
PLCC	-	-	-	-
Total	105.00	-	-	105.00

FY 2022-23				
Particulars	Addition into Gross Block a during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	611.40	-	-	611.40
PLCC	-	-	-	-
Total	611.40	-	-	611.40

B) Regulation wise ACE claim on Cash basis

Regulation No	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
Reg. 24	ACE beyond the original scope:					
24 (1) (a)	Undischarged liabilities recognized to be payable at a future date			105.00	611.40	
24 (1) (b)	Works deferred for execution					
Total Under Regulation 24		-	-	105.00	611.40	

Note:

- In case the true up, provide the ACE allowed in final tariff and enclose the copy of the tariff order(s).
- Year wise details of the Work/Equipment proposed to be added after COD upto Cut-off Date/ beyond Cut- off Date has to be provided along with justification.

In case of de-capitalisation of assets details to be furnished in Form 10B.



Financing of Additional Capitalisation

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)

Financial Year	Actual/Projected					Admitted				
	2019-20	2020-21	2021-22	2022-23	2023-24	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	8	9	10	11	12
Amount capitalised in Work/Equipment	-	-	105.00	611.40	-	-	-	-	-	-
Financing Details										
Loan	-	-	73.50	427.98	-	-	-	-	-	-
Total Loan	-	-	73.50	427.98	-	-	-	-	-	-
Equity *	-	-	31.50	183.42	-	-	-	-	-	-
Total Equity	-	-	31.50	183.42	-	-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	-	-	105.00	611.40	-	-	-	-	-	-

Note:

1 Year 1 refers to Financial Year of COD in case of new elements. For existing elements it is from 2019-20 and Year 2, Year 3 etc. are the subsequent financial years respectively.

2 Loan details for meeting the additional capitalisation requirement should be given as per FORM-9 or 9(A) whichever is relevant.

*Includes equity brought through reserves and surplus and internal cash accruals



Calculation of Return on Equity at Normal Rate

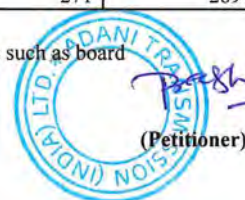
Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line
Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)						
S.No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6	7
	No. of Days in the year	366	365	365	365	366
	No. of days for which tariff claimed	0	0	2	365	366
	Opening Normative Equity	-	-	1,321	1,353	1,536
	Less: Adjustment in Equity*	-	-	-	-	-
	Adjustment during the year	-	-	-	-	-
	Net Opening Equity (Normal)	-	-	1,321	1,353	1,536
	Add: Increase in Equity due to addition during the year/period	-	-	32	183	-
	Less: Decrease due to de-capitalisation during the year	-	-	-	-	-
	Less: Decrease due to de-capitalisation during the year/period.	-	-	-	-	-
	Add: Increase due to discharges during the year/period	-	-	-	-	-
	Closing Normative Equity	-	-	1,353	1,536	1,536
	Average Normative Equity	-	-	1,337	1,445	1,536
	Rate of Return on Equity (Base Rate)	15.50%	15.50%	15.50%	15.50%	15.50%
	Reduced rate of 1% decided by commission under Regulation 30 (2) (if any)					
	Effective tax rate / MAT rate for the respective years	17.47%	17.47%	17.47%	17.47%	17.47%
	Rate of Return on Equity (Pre Tax)	18.78%	18.78%	18.78%	18.78%	18.78%
	Return on Equity on project cost till Cutoff date (Pre Tax)	-	-	1.38	271	289

Note: 1 Adjustment of equity as per Proviso to Regulation 18(3) of 2019 Tariff Regulations.

2. In respect to Equity infusion the Generating Company is required to substantiate with supporting documents such as board resolutions, balance sheet/ reconciliation statement with balance sheet.



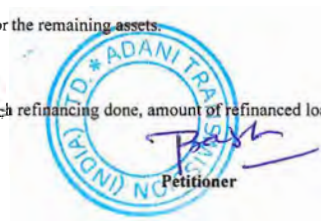
(Petitioner)

PART-III
FORM- 9ADetails of Project Specific Loans

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Amount in lacs)

Particulars	Package
1	2
Source of Loan ¹	ICD
Currency ²	INR
Amount of Loan sanctioned	2944
Amount of Gross Loan drawn upto 31.03.2012/COD ^{3,4,5,13,15}	
Interest Type ⁶	13.25%
Fixed Interest Rate, if applicable	Fixed Rate
Base Rate, if Floating Interest ⁷	NA
Margin, if Floating Interest ⁸	NA
Are there any Caps/Floor ⁹	NA
If above is yes,specify caps/floor	NA
Moratorium Period ¹⁰	NA
Moratorium effective from	NA
Repayment Period ¹¹	As per Agreement
Repayment effective from	As per Agreement
Repayment Frequency ¹²	As per Agreement
Repayment Instalment ^{13,14}	As per Agreement
Base Exchange Rate ¹⁶	NA
Are foreign currency loan hedged?	NA
If above is yes,specify details ¹⁷	NA

¹ Source of loan means the agency from whom the loan has been taken such as WB, ADB, WMB, PNB, SBI, ICICI, IFC, PFC etc.² Currency refers to currency of loan such as US\$, DM, Yen, Indian Rupee etc.³ Details are to be submitted as on 31.03.2009 for existing assets and as on COD for the remaining assets.⁴ Where the loan has been refinanced, details in the Form is to be given for the loan refinanced. However, the details of the original loan is to be given separately⁵ If the Tariff in the petition is claimed separately for various transmission elements, details in the Form is to be given separately for all the transmission elements⁶ Interest type means whether the interest is fixed or floating.⁷ Base rate means the base as PLR, LIBOR etc. over which the margin is to be added. Applicable base rate on different dates from the date of drawl may also be⁸ Margin means the points over and above the floating rate.⁹ At times caps/floor are put at which the floating rates are frozen. If such a condition exists, specify the limits.¹⁰ Moratorium period refers to the period during which loan servicing liability is not required.¹¹ Repayment period means the repayment of loan such as 7 years, 10 years, 25 years etc.¹² Repayment frequency means the interval at which the debt servicing is to be done such as monthly, quarterly, half yearly, annual, etc.¹³ Where there is more than one drawal/repayment for a loan, the date & amount of each drawal/repayment may also be given separately¹⁴ If the repayment instalment amount and repayment date can not be worked out from the data furnished above, the repayment schedule to be furnished¹⁵ In case of Foreign loan date of each drawal & repayment alongwith exchange rate at that date may be given.¹⁶ Base exchange rate means the exchange rate prevailing as on 31.03.2009 for existing assets and as on COD for the remaining assets.¹⁷ In case of hedging, specify details like type of hedging, period of hedging, cost of heding, etc.¹⁸ At the time of truing up rate of interest with relevant reset date (if any) to be furnished separately¹⁹ At the time of truing up provide details of refinancing of loans considered earlier. Details such as date on which refinancing done, amount of refinanced loan, and conditions of refinanced loan, financing and other charges incurred for refinancing etc.

PART-III
FORM- 9C

Calculation of Weighted Average Rate of Interest on Actual Loans

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Rs. In Lakhs)

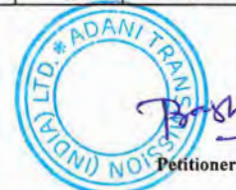
Sl. no.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
	2					
1	Inter-Company Deposit					
	Net loan - Opening	1,723.20	1,226.73	1,049.07	263.46	363.09
	Add: Drawal(s) during the Year	-	29.51	-	-	-
	Less: Repayment (s) of Loans during the year	496.47	207.17	785.61	-99.63	-44.16
	Net loan - Closing	1,226.73	1,049.07	263.46	363.09	407.25
	Average Net Loan	1,474.97	539.29	131.73	313.27	385.17
	Rate of Interest on Loan on derived basis based on interest paid divided by Average of Opening and Closing Balance of Loan	13.25%	13.25%	13.25%	13.25%	13.25%
	Interest on loan	204.26	159.25	91.16	41.95	47.85
2	Total Loan					
	Net loan - Opening	1,723.20	1,226.73	1,049.07	263.46	363.09
	Add: Drawal(s) during the Year	-	29.51	-	-	-
	Less: Repayment (s) of Loans during the year	496.47	207.17	785.61	(99.63)	(44.16)
	Net loan - Closing	1,226.73	1,049	263	363	407
	Average Net Loan	1,474.97	539	656	313	385
	Interest on loan	204.26	159.25	91.16	41.95	47.85
	Weighted average Rate of interest on Loans	13.25%	13.25%	13.25%	13.25%	13.25%

Note:1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished as per Form 9(D).

However, the calculation in original currency is also to be furnished separately in the same form.

2. In case of already commissioned combined assets the details may be provided asset wise as well as combined.

3. Details of Financing Charges.



PART-III
FORM-9ECalculation of Interest on Normative Loan

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)					
Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	3	4	5	6
Gross Normative loan - Opening	-	-	3,083	3,157	3,585
Cumulative repayment of Normative Loan upto previous year	-	-	-	1	256
Net Normative loan - Opening	-	-	3,083	3,155	3,329
Increase/Decrease due to ACE/de- capitalization during the Year	-	-	74	428	-
Repayments of Normative Loan during the year	-	-	1	254	270
Net Normative loan - Closing	-	-	3,155	3,329	3,059
Average Normative Loan	-	-	3,119	3,242	3,194
Weighted average Rate of Interest of actual Loans	13.25%	13.25%	13.25%	13.25%	13.25%
Interest on Normative loan for the Period/Year	-	-	2.26	429.59	423.19

Note:

1. At the time of true-up net savings as a result of refinancing of loans may be provided along with adjustments of sharing.



(Petitioner)

PART-III
FORM- 10

Calculation of Depreciation Rate

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2021	Additional Capitalization During FY 2021-22	Gross Block as on 31.03.2022	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2021-22
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	-	-	-	5.28%	-
2	Substation equipments	4,404	105	4,509	5.28%	1.29
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
TOTAL		4,404	105	4,509	5.28%	1.29
Weighted Average Rate of Depreciation (%)						5.28%
Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2022	Additional Capitalization During FY 2022-23	Gross Block as on 31.03.2023	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2022-23
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	-	-	-	5.28%	-
2	Substation equipments	4,509.45	611.40	5,120.85	5.28%	254
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
TOTAL		4,509	611	5,121	5.28%	254
Weighted Average Rate of						5.28%
Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2023	Additional Capitalization During FY 2023-24	Gross Block as on 31.03.2024	Depreciation Rates as per CERC's Depreciation Rate Schedule	Depreciation Amount for FY 2023-24
	1	2	3	4	5	6= average(col.2,col.4) X Col.5
1	Transmission Line	-	-	-	5.28%	-
2	Substation equipments	5,121	-	5,121	5.28%	270
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
TOTAL		5,121	-	5,121	5.28%	270
Weighted Average Rate of						5.28%

Note:

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.

(Petitioner)

PART-III
FORM- 10AStatement of Depreciation

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)

Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1	Opening Capital Cost	-	-	4,404	4,509	5,121
2	Closing Capital Cost	-	-	4,509	5,121	5,121
3	Average Capital Cost	-	-	4,457	4,815	5,121
4	Freehold land	-	-	-	-	-
5	Rate of depreciation	0.00%	0.00%	5.28%	5.28%	5.28%
6	Depreciable value	-	-	4,059	4,609	4,609
7	Balance useful life at the beginning of the period					
8	Remaining depreciable value	-	-	4,059	4,607	4,353
9	Depreciation (for the period)	-	-	1	254	270
10	Depreciation (annualised)	-	-	1	254	270
11	Cumulative depreciation at the end of the period^	-	-	1	256	526
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	-	-	1	256	526



(Petitioner)

PART-III
FORM- 11

Calculation of Interest on Working Capital

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda
line Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)						
Sl. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24
1	2	4	5	6	7	8
1	O & M Expenses	-	-	-	-	-
2	Maintenance Spares	-	-	-	-	-
3	Receivables	-	-	0.62	119	123
4	Total Working Capital	-	-	0.62	119	123
5	Rate of Interest	12.05%	11.25%	10.50%	10.50%	12.00%
6	Interest on Working Capital	-	-	0.06	13	15

Pankaj
(Petitioner)

Summary of issue involved in the petition

1	Name of the Petitioner	Adani Transmission (India) Limited	
2	Petition Category	Transmission	
3	Tariff Period	2019-24	
4	Name of the Project	12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end	
5	Investment Approval date		
6	SCOD of the Project		
7	Actual COD of the project	30-Mar-22	
8	Whether entire scope is covered in the present petition.	Yes	
9	No. of Assets covered in instant petition	1	
10	No. of Assets having time over run	Nil	
11	Estimated Project Cost as per IA		
12	Is there any REC? if so, provide the date	No	
13	Revised Estimated Project Cost (if any)	Nil	
14	Completion cost for all the assets covered in the instant petition	Yes	
15	No. of Assets covered in instant petition and having cost overrun	Nil	
16	Prayer in brief	Approval of Tariff for 12 ohm Series Line Reactors	
17	Key details and any Specific issue involved		
18	Respondents		
	Name of Respondents		
	Power Grid Corporation of India Limited	WRPC	NLDC
	Central Transmission Utility of India Limited	NRLDC	NDMC
	Daman and Diu Electricity Department	BRPL	UPCL
	Goa State Electricity Board	JPL	CEA
	Heavy water Projects, Department of Atomic Energy	TPL	WRPC
	Electricity Department UT Chandigarh	PTC india	PDD
	Kanpur Electricity Supply Company Limited	HVPNL	HPSEB
	Haryana Power Purchase Centre	GUVNL	NRPC
	Rajasthan Power Procurement Centre	MSEDCL	RRVNL
	Jodhpur Vidyut Vitran Nigam Limited	MPPMCL	GETCO
	Jaipur Vidyut Vitran Nigam Limited	MPAKVNL	PSPCL
	Ajmer Vidyut Vitran Nigam Limited	BYPL	TPDDL
	Delhi Transco Limited	CSPDCL	UPPCL
	North Central Railway	DNH	



Petitioner

Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.

Name of the Petitioner	Adani Transmission (India) Limited
Tariff Period	2019-24
Name of the Transmission Project	12-ohm Series Line Reactors in 400 kV D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end
COD of the Project(if entire scope of project is completed)	30-Mar-22

A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.

Sr. No.	Asset No.	COD	Cut off date	Summary of Actual / Projected Capital Cost						Capital Cost as on 31.03.2024
				As on 31-03-2019	2019-20	2020-21	2021-22	2022-23	2023-24	
1	Asset III	3/30/2022	3/30/2025	-	-	-	4,509	611	-	5,121
Total Capital Cost Claimed										5,121

B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.

Sr. No.	Asset No.	2019-20	2020-21	2021-22	2022-23	2023-24
1	Asset III	-	-	4.99	967.66	996.81
Total AFC for all the Assets		-	-	4.99	967.66	996.81





सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

विषय: प्रचालन समन्वय उप-समिति की 225^{वीं} बैठक की कार्यसूची।**Subject: Agenda of the 225th OCC meeting.**

प्रचालन समन्वय उप-समिति की 225^{वीं} बैठक का आयोजन वीडियो कॉन्फ्रेंसिंग के माध्यम से दिनांक 12.11.2024 को 10:30 बजे से किया जायेगा। उक्त बैठक की कार्यसूची उत्तर क्षेत्रीय विद्युत् समिति की वेबसाइट <http://164.100.60.165> पर उपलब्ध है।

बैठक में सम्मिलित होने के लिए लिंक व पासवर्ड सभी सदस्यों को ई-मेल द्वारा प्रदान किया जाएगा।

कृपया बैठक में उपस्थित होने की सुविधा प्रदान करें।

The 225th meeting of the Operation Co-ordination sub-committee will be conducted through Video Conferencing on 12.11.2024 from 10:30 Hrs. The agenda of this meeting has been uploaded on the NRPC web-site <http://164.100.60.165>.

The link and password for joining the meeting will be e-mailed to respective e-mail IDs in due course.

Kindly make it convenient to attend the meeting.

(डी. के. मीना)

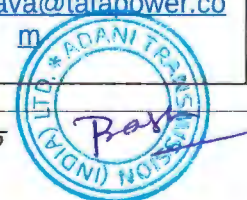
अधीक्षण अभियंता (प्रचालन)

सेवा में : प्रचालन समन्वय उप समिति के सभी सदस्य।**To : All Members of OCC****Signed by Dharmendra
Kumar Meena****Date: 08-11-2024 18:57:15**

List of addressee (via mail)

452

OCC Members for FY 2024-25			
S. No	OCC Member	Category	E-mail
1	NLDC	National Load Despatch Centre	nomination awaited rk.porwal@grid-india.in
2	NRLDC	Northern Regional Load Despatch Centre	somara.lakra@grid-india.in
3	CTUIL	Central Transmission Utility	kashish@powergrid.in
4	PGCIL	Central Government owned Transmission Company	rtamc.nr1@powergrid.in rtamcjammu@powergrid.in cpcc.nr3@powergrid.in
5	NTPC	Central Generating Company	hastogi@ntpc.co.in
6	BBMB		powerc@bbmb.nic.in
7	THDC		ravindrasrana@thdc.co.in
8	SJVN		sjvn.cso@sjvn.nic.in
9	NHPC		surendramishra@nhpc.nic.in
10	NPCIL		df@npcil.co.in
11	Delhi SLDC	State Load Despatch Centre	gmsldc@delhisldc.org
12	Haryana SLDC		cesocomml@hvpn.org.in
13	Rajasthan SLDC		ce.ld@rvpn.co.in
14	Uttar Pradesh SLDC		cepso@upslldc.org
15	Uttarakhand SLDC		se_sldc@ptcul.org
16	Punjab SLDC		ce-sldc@pstcl.org
17	Himachal Pradesh SLDC		cehpsldc@gmail.com
18	DTL	State Transmission Utility	bl.gujar@dtl.gov.in
19	HVPNL		cetspk@hvpn.org.in
20	RRVNL		ce.ppm@rvpn.co.in
21	UPPTCL		smart.saxena@gmail.com
22	PTCUL		ce_oandmk@ptcul.org
23	PSTCL		ce-tl@pstcl.org
24	HPPTCL		gmprojects.tcl@hpmail.in
25	IPGCL		ncsharma@ipgcl-ppcl.nic.in
26	HPGCL	State Generating Company	seom2.rgtp@hpgcl.org.in
27	RRVUNL		ce.ppmcit@rrvunl.com
28	UPRVUNL		cgm.to@uprvunl.org
29	UJVNL		gm_engg_ujvn@yahoo.co.in
30	HPPCL		gm_generation@hppcl.in
31	PSPCL		ce-ppr@pspcl.in
32	UHBVN	State owned Distribution Company (alphabetical rotaional basis/nominated by state govt.)	nomination awaited (md@uhbvn.org.in)
33	Jodhpur Vidyut Vitran Nigam Ltd.		addicehqjdvnl@gmail.com
34	Paschimanchal Vidyut Vitaran Nigam Ltd.		nomination awaited (md@pvvnl.org)
35	UPCL		cgmupcl@yahoo.com
36	HPSEB		cesysophsbebl@gmail.com
37	Prayagraj Power Generation Co. Ltd.	IPP having more than 1000 MW installed capacity	sanjay.bhargava@tatapower.co



38	Aravali Power Company Pvt. Ltd		amit.hooda01@gmail.com
39	Apraave Energy Ltd.,		rajneesh.setia@apraava.com
40	Talwandi Sabo Power Ltd.		ravinder.thakur@vedanta.co.in
41	Nabha Power Limited		Durvesh.Yadav@larsentoubro.com
42	MEIL Anpara Energy Limited		arun.tholia@meilanparapower.com
43	Rosa Power Supply Company Ltd		Suvendu.Dey@relianceada.com
44	Lalitpur Power Generation Company Ltd		avinashkumar.ltp@lpgcl.com
45	MEJA Urja Nigam Ltd.		rsjuneja@ntpc.co.in
46	Adani Power Rajasthan Limited		manoj.taunk@adani.com
47	JSW Energy Ltd. (KWHEP)		roshan.zipta@jsw.in
48	TATA POWER RENEWABLE	IPP having less than 1000 MW installed capacity (alphabetical rotational basis)	nomination awaited (dhmahabale@tatapower.com)
49	UT of J&K	From each of the Union Territories in the region, a representative nominated by the administration of the Union Territory concerned out of the entities engaged in generation/ transmission/ distribution of electricity in the Union Territory.	sojpdd@gmail.com
50	UT of Ladakh		cepdladakh@gmail.com
51	UT of Chandigarh		elop2-chd@nic.in
52	Noida Power Company limited	Private Distribution Company in region (alphabetical rotational basis)	nomination awaited (ssrivastava@noidapower.com)
53	Fatehgarh Bhadla Transmission Limited	Private transmission licensee (nominated by central govt.)	nomination awaited (nitesh.ranjan@adani.com)
54	NTPC Vidyut Vyapar Nigam Ltd.	Electricity Trader (nominated by central govt.)	nomination awaited (ceonvvn@ntpc.co.in)



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Part-A: NRPC

A.1. Confirmation of Minutes

224th OCC meeting was held on 18.10.2024. Minutes of the meeting were issued vide letter dt. 07.11.2024.

Decision required from Forum:

Forum may approve the minutes of 224th OCC meeting.

A.2. Status of action taken on decisions of 224th OCC meeting of NRPC

A.2.1. Status of action taken on decisions of 224th NRPC meeting is attached as **Annexure- A.0.**

A.3. Review of Grid operations**A.3.1. Power Supply Position (Provisional) for October 2024**

Anticipated Power Supply Position v/s Actual Power Supply Position (Provisional) of Northern Region during the month of October-2024 is as under:

State / UT	Req. / Avl.	Energy (MU)			Peak (MW)		
		Anticipated	Actual	% Variation	Anticipated	Actual	% Variation
CHANDIGARH	(Avl)	130	145	11.6%	310	298	-3.9%
	(Req)	142	145	2.2%	304	298	-2.1%
DELHI	(Avl)	3423	3243	-5.2%	5650	6161	9.0%
	(Req)	2700	3244	20.1%	5650	6161	9.0%
HARYANA	(Avl)	6126	6161	0.6%	10263	11087	8.0%
	(Req)	5601	6161	10.0%	10602	11087	4.6%
HIMACHAL PRADESH	(Avl)	1069	1065	-0.4%	1935	1947	0.6%
	(Req)	1084	1066	-1.7%	1915	1947	1.7%
J&K and LADAKH	(Avl)	1390	1546	11.2%	3090	2742	-11.3%
	(Req)	1872	1558	-16.8%	3235	3068	-5.2%
PUNJAB	(Avl)	6150	6268	1.9%	10080	14311	42.0%
	(Req)	6499	6268	-3.6%	12748	14311	12.3%
RAJASTHAN	(Avl)	8330	9846	18.2%	17860	16206	-9.3%
	(Req)	9461	9846	4.1%	15300	16206	5.9%
UTTAR PRADESH	(Avl)	13020	14226	9.3%	25500	26756	4.9%
	(Req)	12710	14227	11.9%	25500	26756	4.9%
UTTARAKHAND	(Avl)	1287	1349	4.9%	2260	2412	6.7%
	(Req)	1271	1355	6.6%	2200	2412	9.6%
NORTHERN REGION	(Avl)	40924	43849	7.1%	76900	73700	-4.2%
	(Req)	41340	43869	6.1%	70500	73700	4.5%

As per above, negative / significant variation ($\geq 5\%$) in Actual Power Supply Position (Provisional) vis-à-vis Anticipated figures is observed for the month of October-2024 in terms of Energy Requirement for Delhi, Haryana, HP, UTs of J&K and Ladakh, Punjab, UP, and Uttarakhand and in terms of Peak Demand similar variation is noted

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for Chandigarh, Delhi, UTs of J&K and Ladakh, Punjab, Rajasthan, and Uttarakhand⁴⁵⁶. These states/UTs are requested to submit reason for such variations so that the same can be deliberated in the meeting.

All SLDCs are requested to furnish provisional and revised power supply position in prescribed formats on NRPC website portal by 2nd and 15th day of the month respectively for the compliance of Central Electricity Authority (Furnishing of Statistics, Returns and Information) Regulations, 2007.

A.4. Maintenance Programme of Generating Units and Transmission Lines

A.4.1. Maintenance Programme for Generating Units

The meeting on proposed maintenance programme for Generating Units for the month of December-2024 is scheduled on 11-November-2024 via Video Conferencing.

A.4.2. Outage Programme for Transmission Elements

The meeting on proposed outage programme of Transmission elements for the month of December-2024 is scheduled on 11-November-2024 via Video conferencing.

A.5. Planning of Grid Operation

A.5.1. Anticipated Power Supply Position in Northern Region for December 2024

The Anticipated Power Supply Position in Northern Region for December 2024 is as under:

State / UT	Availability / Requirement	Revised Energy (MU)	Revised Peak (MW)	Date of revision
CHANDIGARH	Availability	120	290	No Revision submitted
	Requirement	123	307	
	Surplus / Shortfall	-3	-17	
	% Surplus / Shortfall	-2.4%	-5.4%	
DELHI	Availability	3320	6070	No Revision submitted
	Requirement	2174	5508	
	Surplus / Shortfall	1146	562	
	% Surplus / Shortfall	52.7%	10.2%	
HARYANA	Availability	5800	10450	No Revision submitted
	Requirement	4250	8954	
	Surplus / Shortfall	1550	1496	
	% Surplus / Shortfall	36.5%	16.7%	

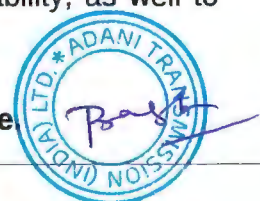
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State / UT	Availability / Requirement	Revised Energy (MU) 620	Revised Peak (MW) 2250	Date of revision
HIMACHAL PRADESH	Requirement	1145	2146	No Revision submitted
	Surplus / Shortfall	-525	104	
	% Surplus / Shortfall	-45.9%	4.8%	
J&K and LADAKH	Availability	1240	3130	No Revision submitted
	Requirement	2062	3245	
	Surplus / Shortfall	-822	-115	
	% Surplus / Shortfall	-39.9%	-3.5%	
PUNJAB	Availability	6100	10100	No Revision submitted
	Requirement	4531	8991	
	Surplus / Shortfall	1569	1109	
	% Surplus / Shortfall	34.6%	12.3%	
RAJASTHAN	Availability	9060	18360	No Revision submitted
	Requirement	10886	19278	
	Surplus / Shortfall	-1826	-918	
	% Surplus / Shortfall	-16.8%	-4.8%	
UTTAR PRADESH	Availability	14290	27530	No Revision submitted
	Requirement	10378	22277	
	Surplus / Shortfall	3912	5253	
	% Surplus / Shortfall	37.7%	23.6%	
UTTARAKHAND	Availability	1333	2450	05-Nov-24
	Requirement	1380	2490	
	Surplus / Shortfall	-47	-40	
	% Surplus / Shortfall	-3.4%	-1.6%	
NORTHERN REGION	Availability	41883	73500	
	Requirement	36929	66700	
	Surplus / Shortfall	4955	6800	
	% Surplus / Shortfall	13.4%	10.2%	

SLDCs are requested to update the anticipated power supply position of their respective state / UT for the month of December-2024 and submit the measures proposed to be taken to bridge the gap between demand & availability, as well to dispose-off the surplus, if any, in the prescribed format.

A.6. Follow-up of issues from previous OCC Meetings- Status update



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The updated status of agenda items is enclosed at **Annexure-A.I.**

All utilities are requested to update the status.

A.7. NR Islanding scheme

Latest status of Islanding Scheme of NR is attached as **Annexure-A.II.**

Members may kindly deliberate.

A.8. Coal Supply Position of Thermal Plants in Northern Region

A.8.1 In 186th OCC meeting, it was agreed that coal stock position of generating stations in northern region may be reviewed in the OCC meetings on the monthly basis.

A.8.2 Accordingly, coal stock position of generating stations in northern region during current month (till 05th November 2024) is as follows:

Station	Capacity (MW)	PLF % (prev. months)	Normative Stock Req'd (Days)	Actual Stock (Days)
ANPARA C TPS	1200	0.59	14	9.1
ANPARA TPS	2630	0.83	14	7.5
BARKHERA TPS	90	0.43	22	8.8
DADRI (NCTPP)	1820	0.23	22	10.0
GH TPS (LEH.MOH.)	920	0.13	22	22.3
GOINDWAL SAHIB TPP	540	0.35	22	18.5
HARDUAGANJ TPS	1265	0.43	22	16.1
INDIRA GANDHI STPP	1500	0.61	22	28.8
KAWAI TPS	1320	0.60	22	22.6
KHAMBARKHERA TPS	90	0.49	22	13.2
KOTA TPS	1240	0.55	22	13.3
KUNDARKI TPS	90	0.41	22	12.3
LALITPUR TPS	1980	0.58	22	9.9
MAHATMA GANDHI TPS	1320	0.61	22	24.1
MAQSOODPUR TPS	90	0.43	22	12.5
MEJA STPP	1320	0.54	22	12.7
OBRA TPS	1094	0.56	22	6.9
PANIPAT TPS	710	0.43	22	27.4
PARICHHA TPS	1140	0.52	22	12.6
PRAYAGRAJ TPP	1980	0.59	22	15.6
RAJIV GANDHI TPS	1200	0.34	22	22.9
RAJPURA TPP	1400	0.51	22	12.9
RIHAND STPS	3000	0.74	14	10.2
ROPAR TPS	840	0.19	22	28.9

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Station	Capacity (MW)	PLF % (prev. months)	Normative Stock Req'd (Days)	Actual Stock (Days)
ROSA TPP Ph-I	1200	0.56	22	15.3
SINGRAULI STPS	2000	0.66	14	8.5
SURATGARH TPS	1500	0.24	22	8.8
TALWANDI SABO TPP	1980	0.46	22	9.2
TANDA TPS	1760	0.55	22	10.9
UNCHAHAHAR TPS	1550	0.48	22	9.4
UTRAULA TPS	90	0.44	22	15.4
YAMUNA NAGAR TPS	600	0.25	22	13.8
CHHABRA-I PH-1 TPP	500	0.76	22	8.4
KALISINDH TPS	1200	0.33	22	9.8
SURATGARH STPS	1320	0.61	22	4.1
CHHABRA-I PH-2 TPP	500	0.76	22	8.8
CHHABRA-II TPP	1320	0.74	22	4.3

A.9. Status of availability of ERS towers in Northern Region (Agenda by NRPC Sectt.)

A.9.1 In the 68th meeting of NRPC issues arising due to non-availability of sufficient ERS were discussed and it was decided that ERS availability monitoring shall be taken as rolling/follow-up agenda in OCC meetings for regular monitoring of ERS under different utilities in Northern region.

A.9.2 Subsequently matter was deliberated in 211th OCC meeting wherein NRLDC representative briefed about the Requirement of ERS, recent experience in Northern Region, CEA Regulation on ERS, Govt. Guidelines and Present situation on ERS.

A.9.3 NRPC Sectt. vide letter dated 26.09.2023 requested all transmission utilities of NR to furnish the length of transmission line (ckt-kms) and number of ERS towers available with them at different voltage levels (e.g. 220 kV, 400 KV 765 KV and + - 500 kV HVDC via email at seo-nrpc@nic.in.

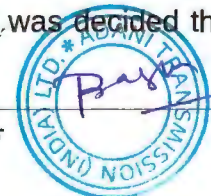
A.9.4 In this regard, inputs received from utilities are attached as **Annexure-A.III.**

Transmission utilities of NR to update status.

A.10. Updating outage Details by Generating Station/utilities (Agenda by CEA)

A.10.1. To enhance the monitoring of approved Planned Maintenance schedules, Member (GO&D), CEA has directed that actual maintenance availed against approved planned maintenance is to be updated on priority by respective RPCs regularly on monthly basis.

A.10.2. In the 221st OCC meeting of NRPC, forum asked generating stations of NR to update the status of Planned Maintenance schedules versus actual maintenance availed for the previous month before every OCC meeting and it was decided that



to enhance the monitoring of approved Planned Maintenance schedules the said agenda item shall be taken as rolling/follow-up agenda in OCC meetings.

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A.10.3. In this regard, list of Planned Maintenance schedules versus actual maintenance availed for the year 2024-25 for the month of October 2024 is attached as **Annexure-A.IV.**

A.10.4. In this, regard, Generating Station/utilities of NR are requested to submit each month the details of the maintenance activities that transpired against the originally planned schedule. Further, any deviations from the planned schedule shall be explained by the concerned generating entities.

Generating utilities of NR to update status.

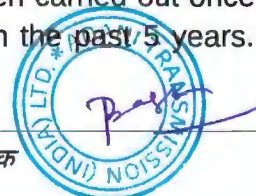
A.11. Installation of Co2 injection (seeding) system in HVDC Mundra and Mahendragarh Terminal system (agenda by ATIL)

A.11.1. ± 500 kV HVDC Mundra Mahendragarh Transmission system is a critical interconnection between the western region and the Northern Region. The system is in service since the last 12 years. Every year, the system is taken into outage for 6-8 days majorly to check the valve cooling system with checks of deposition of the electrode cooling tubes. The reason of deposition is during circulation of DM water for cooling of thyristor, it meets aluminum alloy heat sinks of the thyristor. Very slow chemical process happens which releases aluminum in DM water while circulation within thyristor heat sink. Released aluminum particles in microns circulate inside water tubes of valve hall. Siemens has provided electrodes on colling tubes of valve hall. Aluminum particles with other impurities deposit on electrodes provided on colling tubes of valve hall. It is very critical to check these electrodes every year so that electrodes with high deposition can be replaced.

A.11.2. Some images of the deposition formed are:



A.11.3. While this electrode deposition and replacement activity had been carried out once a year, we have observed increased deposition in electrodes in the past 5 years. Below is the trend of deposition observed:



	Location	2019	2020	2021	2022	2023	Grand Total
REPLACEMENT OF GRADING ELECTRODE	Mundra	15	20	32	44	47	158
	Mahendragarh	7	9	18	25	28	87

A.11.4. Moreover, ATIL has had 5 nos. of emergency outages availed in the past 2 years due to deposition and water leakage in the valve hall. The problem is aggravating and it is required that ATIL would have to check the deposition on electrodes on 6 monthly basis i.e. 16 days outage of HVDC system.

A.11.5. ATIL had approached OEM (M/S Siemens) to provide a solution for such deposition. M/S Siemens has proposed installation of CO₂ dosing (injection) system. The purpose of the CO₂-dosing system is to inject gaseous CO₂ in the cooling system in order to modify the conditions of the cooling water. According to the CO₂ amount the pH-value of the cooling water and the conductivity changes. Through the conductivity value the injected CO₂ amount is controlled. The CO₂-dosing system is needed to reduce/stop the formation of aluminum coating on the grading electrodes used inside the converter. Thus, the injection system maintains the pH of DM water to 7 which prevents such scaling.

A.11.6. ATIL has submitted that the above-mentioned solution is proven and globally recommended. Enclosed (**Annexure-V**) is a technical paper published by "Internal Journal of electrochemical science" on the subject with Siemens' experience on the same. In India, Power grid has installed the same in its Talcher and Kolar HVDC terminals and the results are very good. CO₂ injection system has reduced impurity deposition which has resulted in long maintenance and emergency outages.

A.11.7. The estimate cost of supply and installation is Rs 10 crore/pole/terminal (total Rs 40 crore for both Mundra and Mahendragarh). The installation would require an outage of 6-8 days outage/pole.

A.11.8. ATIL seeks approval of the forum to install the CO₂ injection system as an additional capitalization for technical upgradation project and requests approval of the outage duration for installation of the same as deemed available to ATIL.

A.11.9. The cited subject was also discussed in the 51st TCC and 76th NRPC meeting wherein NRPC Board referred matter to OCC forum for detailed technical deliberation on this agenda.

Members may kindly deliberate.

A.12. Procurement of cold spare transformers and reactor for Northern Region (Agenda by POWERGRID)

A.12.1 Hon'ble CERC had set up a committee on dated 15.03.2018 consisting of representatives from CERC, NLDC, CEA & POWERGRID under the Chairmanship of the Chief (Engineering) of the CERC to assess the requirement of regional spares including bus reactors, line reactors, ICTs, etc. This would ensure reliability of the grid and reduce downtime in case of any failure/outage.



A.12.2 In As per CERC Committee recommendation, the following spares transformers & reactors are required to be kept as spare for Northern Region as per POWERGRID assets base:

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i) **Transformer:**

S I N o	State/ UT	MVA Rating and Phase	Volt	Total installed unit	Spare Required as per CERC report	RPC Approved Spares	Qty Proposed for procurement	Approx Cost (Rs. In Crore)	Availability of RPC Spare	Remarks
1	DELHI	3Ø-500 MVA	400/220	10	1	1	0		Tughla kabad	
2	DELHI	3Ø-315 MVA	400/220	3	1	0	1	20.24		Mahara nibagh/ Bawana
3	HARYAN A	3Ø-500 MVA	400/220	17	2	2	0		Manes ar GIS Panchk ula (Given to PSTCL)	
4	HARYAN A	3Ø-315 MVA	400/220	22	2	1	0			
5	HIMACH AL PRADES H	3Ø-315 MVA	400/220	3	1	0	1	20.24		Require d at Nallagar h
6	JAMMU & KASHMI R	3Ø-315 MVA	400/220	3	1	0	1	20.24		Require d at Sambha
7	PUNJAB	3Ø-500 MVA	400/220	12	1	1	0		Moga	
8	PUNJAB	3Ø-315 MVA	400/220	10	1	2	0		01no. under procur ement Ludhia na - Given to DTL	
9	RAJAST HAN	3Ø-500 MVA	400/220	32	2	1	0			
10	RAJAST HAN	3Ø-315 MVA	400/220	18	1	1	0		Bhiwad i - Given to	



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									RVPNL	
1	UTTAR PRADESH	3Ø-500 MVA	400/220	15	1	1	0		Lucknow	
1	UTTAR PRADESH	3Ø-315 MVA	400/220	21	2	2	0		02nos. under procurement	
1	UTTAR PRADESH	3Ø-200 MVA	400/132	1	1	0	1	13.27		Required at Ballia
1	UTTAR PRADESH	3Ø-200 MVA	220/132	2	1	1	0		Raibareilly	
1	UTTARA KHAND	3Ø-500 MVA	400/220	1	1	0	1	26.81		Required at Roorkee
1	UTTARA KHAND	3Ø-315 MVA	400/220	4	1	0	1	20.24		Required at Dehradun
1	CHANDI GARH	3Ø-160 MVA	220/66	2	1	0	1	11.7		Required at Chandigarh
Total								132.74		

Special type of Transformer

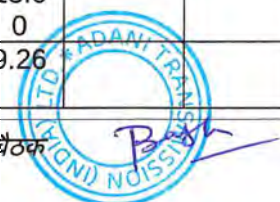
S I N o	Location	MVA Rati ng and Pha se	Volta ge	Tota l insta lled unit	Spar e Requ ired as per CER C repo rt	RPC Appr oved Spar es	Qty Propos ed for procu rement	App rox Cost (Rs. In Cror e)	Availa bility of RPC Spare	Remark s
1	GIS Maharani Bagh	3Ø- 500 MVA	400/ 220	2	1	0	1	30		HV bushing s: Oil to GIS IV Bushing s: Oil to Oil
2	GIS Baghpat	3Ø- 500 MVA	400/ 220	2	1	0	1	30		
Total								60		

ii) **Reactors:**



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Sl. No.	State	Voltage Rating	Capacity in MVA	Total installed Unit	Spare required as per CERC Committee report	RPC Approved Spares	Qty Proposed for procurement	Approx Cost (Rs. In Crore)	Availability of RPC Spare	Remarks
1	Delhi	420 kV	125	3	1	0	1	13.00		
2	Haryana	220 kV	25	2	1	0	1	5.00		
3	Haryana	420 kV	50	12	1	0	1	9.26		
4	Haryana	420 kV	80	7	1	0	1	11.25		
5	Haryana	420 kV	125	11	1	0	1	13.00		
6	HP	420 kV	50	4	1	0	0			
7	HP	420 kV	63	2	1	0	1	9.56		
8	HP	420 kV	80	4	1	0	1	11.25		
9	HP	420 kV	125	1	1	0	1	13.00		
10	J&K	420 kV	50	5	1	0	0			
11	J&K	420 kV	63	3	1	0	1	9.56		
12	J&K	420 kV	80	2	1	0	1	11.25		
13	J&K	420 kV	125	2	1	0	1	13.00		
14	J&K	220 kV	25	1	1	0	1	5.00		
15	LADAKH	220 kV	25	2	1	0	1	5.00		
16	Punjab	420 kV	50	8	1	0	0			
17	Punjab	420 kV	63	4	1	0	1	9.56		
18	Punjab	420 kV	80	2	1	0	1	11.25		
19	Punjab	420 kV	125	7	1	0	1	13.00		
20	Punjab	220 kV	25	3	1	0	1	5.00		
21	Rajasthan	420 kV	50	22	2	0	0			
22	Rajasthan	420 kV	63	2	1	0	1	9.56		
23	Rajasthan	420 kV	80	7	1	0	1	11.25		
24	Rajasthan	420 kV	125	12	1	0	1	13.00		
25	UP	420 kV	50	36	2	0	1	9.26		

कार्यसूची: उ.क्षे. वि. स. की प्रचालन समन्वय उप-समिति की 225^{वीं} बैठक

465

26	UP	420 kV	63	11	1	0	1	9.56		
27	UP	420 kV	80	16	1	0	1	11.25		
28	UP	420 kV	125	21	2	0	1	13.00		
29	UP	220 kV	25	1	1	0	1	5.00		
30	Uttarakhand	220 kV	25	2	1	0	1	5.00		
31	Uttarakhand	420 kV	50	0	0	0	1	9.26		
32	Uttarakhand	420 kV	80	1	1	0	1	11.25		
33	Uttarakhand	420 kV	125	2	1	0	1	13.00		

Total 288.33

Special Type of Reactors

Sl. No.	Location	Voltage Rating	Capacity in MVA	Total installed Unit	Spare required as per CERC Committee report	RPC Approved Spares	Qty Proposed for procurement	Approx Cost (Rs. In Crore)	Availability of RPC Spare	Remarks
1	GIS Manesar	420 kV	125	2	1	0	1	14.00		HV bushings: Oil to GIS
2	GIS Baghpat	420 kV	125	1	1	0	1	14.00		

Total 28

Grand Total: 509.07 Cr.

A.12.3 In view of the above, Powergrid has requested for approval for procurement of cold spare transformers & reactors of various ratings as per CERC committee recommendation as mentioned above. The Tariff for the investment made is to be shared by constituents as per CERC notification.

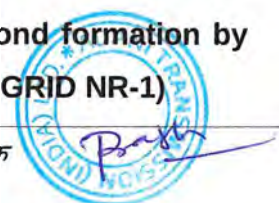
A.12.4 The cited subject matter was also discussed in the 51st TCC and 76th NRPC meeting wherein NRPC Board referred matter to OCC forum for detailed technical deliberation on this agenda.

A.12.5 In the 51st TCC and 76th NRPC meeting MS, NRPC also conveyed that the status of availability/requirements of ICTs/Reactors may be taken as agenda in the OCC meetings regularly to know the present scenario of these assets.

Members may kindly deliberate.

A.13. Review of availability for power line crossing & OPGW diamond formation by upcoming new Transmission line projects (Agenda by POWERGRID NR-1)

कार्यसूची: उ.क्षे. वि. स. की प्रचालन समन्वय उप-समिति की 225^{वीं} बैठक



A.13.1. This is in reference to the NRTS Availability and the classification of outages required for power line crossings and OPGW diamond formations associated with upcoming transmission line projects. Powergrid NR-1 has mentioned that these outages are not currently being considered under the "LCSD" category (Line Shutdowns for Construction Activities of New Systems Executed by Licensee) on availability certification, which accurately reflects the purpose of these shutdowns as they support essential construction activities for new system integrations.

A.13.2. The construction of the 765kV Bhadla-2 to Sikar-2 transmission line, as approved in the 6th NCT meeting held on 30.09.2019 (MoM point no-4.3.5, pages 11-12 copy attached as **Annexure-A.VI**), is progressing steadily. Additionally, the commissioning of the Fatehgarh-2 to Bhadla-2 Circuits 3 & 4 is underway as per the approved 6th NCT scheme. Both these critical transmission lines require planned shutdowns at multiple locations where they cross existing 765kV and 400kV lines. These planned shutdowns, intended for power line crossings and OPGW diamond formations, have been discussed and formally approved in the outage meeting of OCC.

A.13.3. Powergrid NR-1 has requested that total outage period (mentioned in attached **Annexure-A.VII**) may be reviewed and considered deemed available for power line crossing & OPGW diamond formation by upcoming new Transmission line projects.

Members may kindly deliberate.

खण्ड-ख: उ.क्षे.भा.प्रे.के.

Part-B: NRLDC

B.1. NR Grid Highlights for October 2024

S.No	Constituents	Max Demand met (in MW)	Date & Time of Max Demand met	Max Consumption (in MUs)	Date of Max Consumption	Average Demand met (in Mus)
1	Chandigarh	298	01.10.24 at 19:00	6.0	31.10.24	4.7
2	Delhi	6161	03.10.24 at 15:30	128.3	31.10.24	104.8
3	Haryana	11087	04.10.24 at 19:00	235.2	31.10.24	198.8
4	H.P.	1947	25.10.24 at	36.8	31.10.24	34.4

कार्यसूची: उ.क्षे. वि. स. की प्रचालन समन्वय उप-समिति की 225^{वाँ} बैठक



Annexure-10

Siemens Energy Global GmbH & Co. KG, SE GT SV GLS ON WH,
Siemenspromenade 9, 91058 Erlangen, Germany

Please forward to the owner of
Adani Interconnector

Name	Ralf Terstege
Department	SE GT SV GLS ON WH
Telephone	+49 (9131) 9-425536
Mobile	+49 (174) 1525173
E-Mail	ralf.terstege@siemens-energy.com
Date	10.11.2023

Lifecycle Information regarding HVDC Valve Reactors

Sirs,

HVDC classic converter valve do have for each thyristor column water-cooled saturating inductance installed in series. These valve reactors are limiting the rise of current through the thyristors to prevent them from punctual over stress. Classic converter valves cannot be operated without it.

Due to the decreasing demand worldwide, the production lines will be taken out of service very soon. That means that no new such devices can be manufactured any more.

This applies also to the type of valve reactor installed at Adani Interconnector

Please note the following timeline for the phase out process:

- Please check your demand for the future. If there is an intention to top up stock, please share a **tentative quantity** with us **by end of January 2024**.
- Based on total worldwide demand we will come back with a **commercial quote in the course of February April 2024**. This will be the final call for a PO. Prices have gone up already significantly and are depending on the total quantity of the manufacturing batch.
- The **deadline** for the receipt of a PO will be end of **July 2024**
- The estimated delivery time will be between 12 and 18 months.

Siemens Energy Global GmbH & Co. KG

Siemenspromenade 9
91058 Erlangen
Germany

siemens-energy.com

Registered office: Munich, Germany; Commercial registry: Munich, HRA 111200;
Personally liable partner: Siemens Energy Management GmbH;
Chairman of the Supervisory Board: Joe Kaeser;
Executive Board: Christian Bruch, President and Chief Executive Officer; Karim Amin, Maria Ferraro, Tim Oliver Holt,
Anne-Laure Parrical de Chamard, Vinod Philip;
Registered office: Munich, Germany; Commercial registry: Munich, HRB 241345
SCF V12





Letter of 10.11.2023
to whom it may concern

How to determine the future demand?

Valve reactors are quite robust, and their design life complies with design live of the converter station.

If it comes to a fault in most cases some external impact had damaged them.

But to be on the save side it is recommended to have some on stock.

As a rule of thumb please consider for your calculation a demand of 0,25 % of the installed fleet per year

For any further questions please do not hesitate to contact us.

Sincerely yours,

Siemens Energy Global GmbH & Co. KG

A handwritten signature in blue ink, appearing to read "Terstege".

Ralf Terstege





भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

Annexure-11

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विषय: उत्तर क्षेत्रीय विद्युत समिति की प्रचालन समन्वय उप-समिति की 208^{वीं} बैठक का कार्यवृत्त
|

Subject: Minutes of the 208th OCC meeting of NRPC.

उत्तर क्षेत्रीय विद्युत समिति की प्रचालन समन्वय उप-समिति की 208^{वीं} बैठक दिनांक 20.06.2023 को आयोजित की गयी थी। उक्त बैठक का कार्यवृत्त उत्तर क्षेत्रीय विद्युत समिति की वेबसाइट <http://164.100.60.165> पर उपलब्ध है। यदि कार्यवृत्त पर कोई टिप्पणी हो तो कार्यवृत्त जारी करने के एक सप्ताह के अन्दर इस कार्यालय को भेजें।

The 208th meeting of the Operation Co-ordination Sub-Committee (OCC) of NRPC was held on 20.06.2023. The Minutes of this meeting has been uploaded on the NRPC website <http://164.100.60.165>. Any comments on the minutes may kindly be submitted within a week of issuance of the minutes.

संलग्नक: यथोपरि

Signed by Santosh Kumar

Date: 11-07-2023 16:37:15

Reason: Approved

(संतोष कुमार)

अधीक्षण अभियंता (प्रचालन)

सेवामें,

उ.क्षे.वि.स. के प्रचालन समन्वय उप-समिति के सभी सदस्य



OCC forum agreed that the matter may be discussed separately between CTUIL, POWERGRID, NRPC, NRLDC and RE developers and then discussed again in OCC forum.

c) Uprating of low rating switchgear at 400kV Nawada, Dhanoda & Mahendragarh

The issues related to low ratings of switchgear at Nawada, Dhanoda & Mahendragarh have been discussed in various NRPC (Northern Region Power Committee), NRPCTP (Northern Region Power Committee on Transmission Planning) & NRSCT (Northern Region Standing Committee on Transmission) meetings. As per Transmission Planning Criteria, the thermal capacity of Quad Moose line is 2180 MVA at 45° ambient temperature. However, as the isolators at 400 kV Nawada, Dhanoda and Mohindergarh stations are rated at only 2 kA, the thermal capacity of respective lines gets limited to only 1385 MVA ($1.732 \times 400 \times 2$).

These limitations have already caused constraints in real-time operation on many occasions and accordingly the switchgear related issues were raised by NRLDC through written communication and in various meetings (NRPC, OCC, NRSCT, NRPCTP). Due to switchgear related issues, bypass of 400kV Mahendragarh-Dhanoda D/C and 400kV Dhanoda-Neemrana D/C at 400kV Dhanoda has been done; operating these lines as 400kV Mahendragarh-Neemrana D/C.

The issue has been discussed in number of meetings & HVPNL has agreed for switchgear replacement work in these meetings. However, as per information available with NRLDC, the switchgear replacement work are yet to be completed.

In the meeting, HVPN representative informed that the price bid have been opened for switchgear replacement at Nawada & Dhanoda.

OCC forum discussed that for bays at Mahendragarh, switchgear replacement work may be carried out by ATIL (Adani Transmission) and asked HVPN to expedite switchgear upgradation work at Nawada & Dhanoda.

d) Issues in declaration of AVC by RE Plants

NRLDC representative stated that it has been observed that some RE plants such as (300MW Azure Mapple, 300 MW Acme Heergarh, RSRPL connected at Bikaner (PG), 130 MW Azure Power 34 at Bhadla (PG) and 200 MW Azure at Adani Bhadla and 300 MW Thar Surya 1 at Bikaner (PG)) are submitting full AvC (Available capacity) whereas the maximum generation is far less than the AvC/contract capacity/Installed Capacity and also Low CUF are being observed in these plants compared to other RE plants. Matter was already apprised in 204th OCC forum, CEA and Bidding agencies such as SECI, MSEDCL.





भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

उत्तर क्षेत्रीय विद्युत समिति

Northern Regional Power Committee

सं. उक्षेविस/वाणिज्यिक/ 209/ आर पी सी (70)/ 2023

दिनांक: 08 दिसम्बर, 2023

सेवा में/To,

एनआरपीसी एवं टीसीसी के सभी सदस्य एवं विशेष आमंत्रित (संलग्न सूचीनुसार)
Members of NRPC & TCC & Special Invitees (As per List)

विषय: उत्तर क्षेत्रीय विद्युत समिति की 70 वीं और तकनीकी समन्वय समिति (टीसीसी) की
48 वीं बैठक का कार्यवृत्त।

Subject: 70th Northern Regional Power Committee (NRPC) & 48th Technical Co-ordination Committee (TCC)-MoM

महोदय/महोदया,

तकनीकी समन्वयन समिति (टीसीसी) की 48 वीं बैठक दिनांक 17.11.2023 (सुबह 10:30 बजे) एवं उत्तर क्षेत्रीय विद्युत समिति की 70 वीं बैठक दिनांक 18.11.2023 (सुबह 10:30 बजे) को अमृतसर, पंजाब में आयोजित की गयी थी। बैठक का कार्यवृत्त संलग्न है। यह उ.क्षे.वि.स. की वेबसाइट (<http://164.100.60.165/>) पर भी उपलब्ध है।

48th meeting of Technical Co-ordination Committee (TCC) was held on 17.11.2023 (10:30 AM) and 70th meeting of Northern Regional Power Committee (NRPC) was held on 18.11.2023 (10:30 AM) at Amritsar, Punjab. MoM of the same is attached herewith. The same is also available on NRPC Sectt. Website (<http://164.100.60.165/>).

भवदीय

Yours faithfully



(Handwritten signature)
08/12/2023

(वी.के. सिंह)

(V.K. Singh)

सदस्य सचिव

Member Secretary

प्रतिलिपि: मोहम्मद शायिन, एमडी, एचवीपीएनएल एवं अध्यक्ष, एनआरपीसी (md@hvnpn.org.in)

- i. Forum suggested BRPL to not use such words (i.e. "Without Prejudice ") if SJVN is not a party to writ.

A.11 Upgrading of low rating switchgear at 400 kV Mahendragarh (agenda by Adani Transmission India Limited)

TCC Deliberation

- A.11.1 EE (P) apprised that in the minutes of the 39th meeting of Standing Committee on Power system planning of Northern Region (held on 29th & 30th may 2017) dated 28.07.2017 (**Annexure-VI**), the issue regarding low rating of switchgear of 400 kV Mahendragarh- Dhanoda D/C line at Mahendragarh and Dhanoda end was discussed, and it was approved that the switchgear at both the Substations shall be upgraded.
- A.11.2 The same was further clarified in the 40th meeting of Standing Committee on Power system planning of Northern Region (held on 22nd June 2018) wherein it was specified that since 400 kV Mahendragarh Substation is an ISTS Substation, the 400 kV equipment upgradation shall be carried out under ISTS (point no 1.2 of the minutes) (**Annexure-VI**).
- A.11.3 Further, BKTL representative informed that the issue was discussed in the 208th OCC meeting of NRPC held on 20.06.2023 (Agenda no 17 c) and its was decided that upgradation for bays at Mahendragarh shall be carried out by Adani Transmission India Limited. This was followed by a letter from NRLDC dated 23.06.2023 wherein ATIL was asked to carry out the upgradation of switchgear at Mahendragarh Substation.
- A.11.4 In compliance with the above requirements, ATIL has prepared the estimate for upgradation of Switchgear of 400 kV Mahendragarh Dhanoda line at Mahendragarh end and the same comes out to approx. Rs 7.0 crore (BoQ enclosed at **Annexure-VI**).
- A.11.5 He further stated that the Isolators, Current Transformers and bay equipments other than Circuit breakers of 400 kV Mahendragarh Bhiwani Line (Mahendragarh end) are also of low rating, the upgradation of which would require additional 1.4 crore.
- A.11.6 BKTL representative highlighted that HVPN has already augmented switchgears at their end. HVPN was requested to confirm in this regard.
- A.11.7 Therefore, BKTL has requested for approval of upgradation at Mahendragarh for Dhanoda and Bhiwani bays with above cost as additional scope for which necessary



approval is granted so that Adani Transmission India Limited shall proceed for implementation after necessary regulatory approval.

- A.11.8 NRLDC representative stated that upgradation in respect of Mahendargarh – Bhiwani may be scrutinized as it has not been discussed in OCC.
- A.11.9 CTU representative desired to have SLD for Mahendargarh S/s so as to analyze the proposal comprehensively.
- A.11.10 Forum requested BKTL to send the SLD for 400 kV Mahendargarh S/s for analysis of switchgear upgradation for Mahendargarh -Bhiwani Line to CTU, NRLDC and NRPC Secretariat and referred for discussion in the next OCC meeting.

NRPC Deliberation

Forum concurred the discussion held in the TCC meeting and decided to deliberate the matter in the next OCC meeting.

Decision of NRPC Forum:

- i. Forum accorded technical approval of the proposal of uprating of low rating switchgears at Mahendargarh end for Mahendargarh-Dhanoda Line.
- ii. Forum also requested ATL to bring the matter related to Mahendargarh Bhiwani Line, in the next OCC meeting. ATL was requested to share SLD and rating of switchgear with CTU/NRLDC/NRPC Sectt.

A.12 Replacement of 420kV 80MVAR Line reactor of 400kV Kanpur-Ballabgarh-1 line at Kanpur end under Add-Cap 2024-2029 (Agenda by POWERGRID)

TCC Deliberation

- A.12.1 POWERGRID representative apprised that 400/220kV Kanpur (PG) is connected to 400/220kV Ballabgarh (PG) through 01 No. 400kV S/C Kanpur (PG)-Ballabgarh (PG) CKT-1 (Line Length- 386.307Km) and 01 No. 400kV D/C Kanpur Ballabgarh-CKT-2 & 3 (Line Length- 372.536Km each). Due to the longer lines, all 3 Circuit have been provided with non-switchable 80MVA Line Reactors at both ends as shown in diagram below:



OCC forum agreed that the matter may be discussed separately between CTUIL, POWERGRID, NRPC, NRLDC and RE developers and then discussed again in OCC forum.

c) Uprating of low rating switchgear at 400kV Nawada, Dhanoda & Mahendragarh

The issues related to low ratings of switchgear at Nawada, Dhanoda & Mahendragarh have been discussed in various NRPC (Northern Region Power Committee), NRPCTP (Northern Region Power Committee on Transmission Planning) & NRSCT (Northern Region Standing Committee on Transmission) meetings. As per Transmission Planning Criteria, the thermal capacity of Quad Moose line is 2180 MVA at 45° ambient temperature. However, as the isolators at 400 kV Nawada, Dhanoda and Mohindergarh stations are rated at only 2 kA, the thermal capacity of respective lines gets limited to only 1385 MVA ($1.732 \times 400 \times 2$).

These limitations have already caused constraints in real-time operation on many occasions and accordingly the switchgear related issues were raised by NRLDC through written communication and in various meetings (NRPC, OCC, NRSCT, NRPCTP). Due to switchgear related issues, bypass of 400kV Mahendragarh-Dhanoda D/C and 400kV Dhanoda-Neemrana D/C at 400kV Dhanoda has been done; operating these lines as 400kV Mahendragarh-Neemrana D/C.

The issue has been discussed in number of meetings & HVPNL has agreed for switchgear replacement work in these meetings. However, as per information available with NRLDC, the switchgear replacement work are yet to be completed.

In the meeting, HVPN representative informed that the price bid have been opened for switchgear replacement at Nawada & Dhanoda.

OCC forum discussed that for bays at Mahendragarh, switchgear replacement work may be carried out by ATIL (Adani Transmission) and asked HVPN to expedite switchgear upgradation work at Nawada & Dhanoda.

d) Issues in declaration of AVC by RE Plants

NRLDC representative stated that it has been observed that some RE plants such as (300MW Azure Mapple, 300 MW Acme Heergarh, RSRPL connected at Bikaner (PG), 130 MW Azure Power 34 at Bhadla (PG) and 200 MW Azure at Adani Bhadla and 300 MW Thar Surya 1 at Bikaner (PG)) are submitting full AvC (Available capacity) whereas the maximum generation is far less than the AvC/contract capacity/Installed Capacity and also Low CUF are being observed in these plants compared to other RE plants. Matter was already apprised in 204th OCC forum, CEA and Bidding agencies such as SECI, MSEDCL.



Annexure-3

UPRATING OF SWITCHGEARS AT 400KV MAHINDERGARH Station for Dhanoda Circuits					
Sr. No.	Description	Unit	Existing Equipment designation	Qty	Spare Qty
1.0	420 kV, 3150A Circuit Breakers, 50kA (3pole) along with operating mechanism, all accessories, auxiliaries and marshalling boxes/kiosks along with support structure(3 phase unit)	nos.	20C02.A-Q0, 20C02.B-Q0, 20C02.C-Q0 20C03.A-Q0, 20C03.B-Q0, 20C03.C-Q0	6	1
2.0	Current Transformers (1 Phase) SF6 Type 420kV, 3150A, 5 Core CT, 50 kA, 1 Sec.	Nos.	20C02.A-T1, 20C02.B-T11, 20C02.C-T1, 20C03.A-T1, 20C03.B-T11, 20C03.C-T1, 20C02.C-T2, 20C03.A-T2	24	2
3.0	Isolators/Disconnecting Switches 420KV Disconnecter with 1 grounding switch (3 phase unit) 3150A, 50kA, 1 sec	Nos.	20C02A-Q1/-Q51, 20C02.A-Q6/-Q52, 20C02.B-Q61/-Q51, 20C02.B-Q62/-Q52, 20C02.C-Q9/-Q8, 20C02.C-Q2/-Q51, 20C02.C-Q6/-Q52 20C03A.Q9/-Q8, 20C03.A-Q1/-Q51, 20C03.A-Q6/-Q52 20C03.B-Q61/-Q51, 20C03.B-Q62/-Q52 20C03.C-Q2/-Q51, 20C03.C-Q6/-Q52	14	2
4.0	Conductor ACSS 31.77 mm	metre	Twin Bersimis	LOT	
5.0	Clamps and connector suitable for HTLS to Bersimis Conductor and above equipment connectors	nos.	existing	LOT	
6.0	Al. Tube 4inch	metre	4 Inch EHIPS Tube	LOT	1
7.0	Cabling works Augmentation	metre	existing	LOT	
8.0	Earthing works Augmentation		existing	LOT	
	a) Earth rod	metre	existing	LOT	
	b) GI Flats	Metre	existing	LOT	
	c) Graveling	Cu.m	existing	LOT	
9.0	Civil Cost				



Appendix-I

PART-III

**TARIFF FILING FORMS (TRANSMISSION &
COMMUNICATION SYSTEM)**

**FOR DETERMINATION OF TARIFF
FY 2024-25 to FY 2028-29**



INDEX

PART-III

Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System

Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM-1	Summary of Tariff	Y
FORM-1A	Summary of Asset level cost	Y
FORM-2	Details of Transmission Lines and Substation and Communication System covered in the project scope and O&M for instant asset	Y
FORM-3	Normative parameters considered for tariff computations	Y
FORM-4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	NA
FORM-4A	Statement of Capital cost	NA
FORM-4B	Statement of Capital Works in Progress	NA
FORM-4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	NA
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	NA
FORM-5A	Break-up of Construction/Supply/Service packages	NA
FORM-5B	Details of all the assets covered in the project	NA
FORM-6	Actual Cash Expenditure and Financial Package up to COD	Y
FORM-7	Statement of Additional Capitalisation after COD	Y
FORM-7A	Financing of Additional Capitalisation	Y
FORM-7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	NA
FORM-8	Calculation of Return on Equity	Y
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	Y
FORM-9D	Loans in Foreign Currency	NA
FORM-9E	Calculation of Interest on Normative Loan	Y
FORM-10	Calculation of Depreciation Rate on original project cost	Y
FORM-10A	Statement of Depreciation	Y
FORM-10B	Statement of De-capitalisation	NA
FORM-11	Calculation of Interest on Working Capital	Y
FORM-12	Details of time over run	NA
FORM-12A	Incidental Expenditure during Construction	NA
FORM-12B	Calculation of IDC & Financing Charges	NA
FORM-13	Details of Initial spares	NA
FORM-14	Non-Tariff Income	NA
FORM-15	Summary of issue involved in the petition	Y
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	Y
Other Information/ Documents		
Sl. No.	Information/Document	Tick
1	Certificate of Incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign	NA
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	NA
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2024-25 and 2025-26 at the time of mid-term true-up in 2026- 27 and for balance period of tariff period 2024-29 at the time of final true-up in 2029-30. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10	Any other relevant information, (Please specify)	

Notel: Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.



PART-III
FORM- 1

Summary of Tariff

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)

Sr. No.	Particulars	Form No.	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1.1	Depreciation	Form 10A	19,834	20,150	6,391	6,404	6,404
1.2	Interest on Loan	Form 9E	7,448	5,355	4,107	3,283	2,434
1.3	Return on Equity ¹	Form 8	21,927	22,265	22,575	22,589	22,589
1.4	Interest on Working Capital	Form 11	959	953	748	751	754
1.5	O & M Expenses	Form 2	5,262	5,608	5,942	6,325	6,650
	Total AFC		55,430	54,332	39,764	39,353	38,832

Note: This Form is a summary form and the Data to this form should flow from other base forms.



PART-III
FORM- 1A

Summary of Asset Level Cost

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)

A) Summary of Capital Cost, Means of Finance of the Asset

Particulars	Summary of Actual / Projected Capital Cost						
	As on 01.04.2024	2024-25	2025-26	2026-27	2027-28	2028-29	As on 31.03.2029
Transmission Line	149,859	-	-	-	-	-	149,859
Substation equipments	207,435	1,500	10,500	500	-	-	219,935
Free hold Land	5,770	-	-	-	-	-	5,770
Leasehold Land	1,031	-	-	-	-	-	1,031
PLCC	2,447	-	-	-	-	-	2,447
Furniture / Fixture	101	-	-	-	-	-	101
Building & Civil Works	21,575	-	-	-	-	-	21,575
Office Equipments	199	-	-	-	-	-	199
Total	388,417	1,500	10,500	500	-	-	400,917

Note: This form is a summary form and the data to this form should flow from other base forms.



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset: ±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

1) Transmission lines

Sr. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line Length km	Commercial Operation Date	Covered in the present petition	
								Yes/No	If No, Petition No.
1	Mundra - Mohindergarh	HVDC	Bipole	Quad Benzais	±/- 500kV	990	Ckt 1: 12.07.2012 Ckt 2: 09.10.2012	Y	-
2	Electrode line at Mundra Station (Mundra-Mandvi)	AC	D/C	Twin Moose	33 kV	32	09.10.2012	Y	-
3	Electrode line at Mohindergarh Station (Mohindergarh-Kaithal)	AC	D/C	Twin Moose	33 kV	187	09.10.2012	Y	-
4	Mohindergarh - Bhiwani	AC	D/C	Twin Moose	400 kV	50	12.07.2012	Y	-
5	Mohindergarh - Dhanonda	AC	D/C	Quad Moose	400 kV	5	09.08.2012	Y	-

Summary:

O&M Expenses for Transmission lines covered in the instant petition	2024-25	2025-26	2026-27	2027-28	2028-29
Normative rate of O&M as per Regulation - Double Circuit (Bundled conductor with four or more sub-conductors) (Rupees in Lakh)	1.29	1.36	1.43	1.51	1.59
Length in km	995	995	995	995	995
O&M Claimed (Rupees in Lakh)	1,284.55	1,352.21	1,422.85	1,498.47	1,577.08
Normative rate of O&M as per Regulation - Double Circuit (Twin & Triple Conductor)(Rupees in Lakh)	0.86	0.91	0.95	1.00	1.06
Length in km	269	269	269	269	269
O&M Claimed	231.61	243.71	256.36	269.81	284.06

2) Substations

Sr. No.	Name of Sub-station	Type of Substation Conventional (Greenfield/Brownfield) V/GIS/HVDC terminal/ HVDC Back to Back	Voltage level kV	No. of transformers / Reactors/ SVC etc. (with capacity)	No. of Bays	MVA/MVAR Capacity	Date of Commercial Operation	Covered in the present Petition	
					400 kV	400 kV		Yes/No	If No, petition No.
1	HVDC Terminal Station at Mundra	HVDC terminal	±/-500 kV	a) AC sub filter - (8x120 MVAR + 3 x 150 MVAR capacitors) b) 2 x 1494 MVA Converter Transformer (7 x 498 MVA 1-ph including 1 spare unit)	Pole I & II	-	Pole 1: 12.07.2012 Pole 2: 09.10.2012	Y	-
2	HVDC Terminal Station at Mohindergarh	HVDC terminal	±/-500 kV	a) AC sub filter - (8x120 MVAR + 3x150 MVAR capacitors) b) 2 x 1494 MVA Converter Transformer (7x498 MVA 1-ph including 1 spare unit)	Pole I & II	-	Pole 1: 12.07.2012 Pole 2: 09.10.2012	Y	-
3	Mundra Switchyard	AC	400 kV	1 No. 3 x 42 MVAR	9	630	12.07.2012	Y	-
4	Mohindergarh Switchyard	AC	400kV	-	4	-	12.07.2012	Y	-
5	Bhiwani (PG) Substation	AC	400kV	-	2	-	12.07.2012	Y	-
6	Bhiwani (PG) Substation	AC	400kV	-	2	-	24.03.2023	Y	-

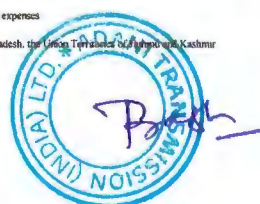
Summary:

O&M Expenses for substations covered in the instant petition	2024-25	2025-26	2026-27	2027-28	2028-29
Normative rate of O&M as per Regulation (Rupees in Lakh)	1.04	1.10	1.16	1.22	1.28
MVA Capacity	2,500	2,500	2,500	2,500	2,500
O&M Claimed (Rupees in Lakh)	2,080	2,200	2,320	2,440	2,560
Normative rate of O&M as per Regulation (Rupees in Lakh)	29.53	31.08	32.71	34.43	36.23
No. of Bays	17	17	17	17	17
O&M Claimed (Rupees in Lakh)	502	528	556	585	616
Normative rate of O&M as per Regulation (Rupees in Lakh)	0.28	0.28	0.29	0.31	0.32
MVA Capacity	630	630	630	630	630
O&M Claimed (Rupees in Lakh)	165	174	183	192	203

Note: 1. Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bays, line bays, reactor bays shall be considered separately for purpose of O&M expenses

2. The MVA Capacity shall exclude the capacity of reactor, FSE, Stat Com

3. O&M expenses for Transmission Licensees whose transmission assets are located solely in NE Region (including Sikkim), States of Uttarakhand, Himachal Pradesh, the Union Territories of Jammu and Kashmir



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset: +500 kV bipole Mundra-Mohinderghar, 400 kV D/C Mohinderghar-Bhiwari (PG) & Mohinderghar-Dhanonda Transmission line with associated substations and other equipments

3) Communication System:

S. No.	Name of Communication System	Type of Communication System- Communication System under ULDC/SCADA/WAMS/Fibre Optic Communication	Length of OPGW links	Covered in the present Petition	
				Yes/No	If No, Petition No.
1	Mundra-Mohinderghar OPGW	OPGW	997km	Yes	-
2	Mundra-Mohinderghar Back up link/lease line	BSNL Lease line	NA	Yes	-
3	Mohinderghar NRLDC BSNL lease line	Lease line	120km	Yes	-
4	Mohinderghar NRLDC TATA lease line	Lease line	120km	Yes	-
5	HVDC station communication	Inter station communication	With in the station	Yes	-
6	AC System communication	Siemens SCADA	System-1, System-2 ,with in the station	Yes	-
7	DC system communication	Siemens SCADA	pole control, Station Control	Yes	-
8	SPS communication	OPGW for Mohinderghar - Bhiwari	45km	Yes	-
9	Dhanonda OPGW communication	OPGW	5.6km	Yes	-

Summary:

O&M Expenses for the Communication System covered in the instant petition:	2024-25	2025-26	2026-27	2027-28	2028-29
The original project cost/ Asset related to the communication system		1.8% of the original project cost	1.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost
O&M expenses as per regulations (2% of Original Project Cost)	48.93	48.93	48.93	48.93	48.93
Estimated O&M Expense (Rupees in Lakh)*		2446.60			

Note: 1. The O&M expenses as per regulation shall be worked on based on estimated project cost
2. Expenses in case of U-NNIS shall be allowed on actual basis after due prudence check.
*The actual O&M expenses to be provided at the time of true up

4) Summary of O&M Expenses claimed:

Summary of O&M Expenses claimed						
Sr. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
A) Normative O&M						
1	Transmission Line	1,516.15	1,595.92	1,679.21	1,768.28	1,861.14
2	Substation	2,747.07	2,902.24	3,058.77	3,217.46	3,378.77
3	Communication system	48.93	48.93	48.93	48.93	48.93
	Total Normative O&M	4,312.16	4,547.09	4,786.91	5,034.67	5,288.84
B) O&M Claimed under Regulation 36 (3)(d)						
	Security Expenses	600.00	710.00	795.00	930.00	1,000.00
	Actual Capital Spare consumed ¹	-	-	-	-	-
	Insurance Premium Paid ²	349.58	350.93	360.38	360.83	360.83
	Total O&M Expenses claimed	5,261.73	5,608.02	5,942.28	6,325.49	6,649.67

Note: The security expenses and Capital Spares are to be submitted on estimated basis for the purpose of O&M expenses. In case of additional security deployed, the petitioner shall indicate the same. The actual security and Capital Spares expenses to be provided at the time of true up

1. List of Capital Spares to be provided at the time of true up. Further, no Capital Spares individually costing upto Rs. 10 lakh shall be claimed.
2. At the time of determination of tariff Insurance Premium shall be estimated which shall be subject to true up on the basis of actuals.



PART-III
FORM-3**Normative Parameters considered for tariff calculations****Name of the transmission Asset:**±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani
(PG) & Mohindergarh-Dhanonda Transmission line with associated substations
and other equipments**Year Ending March**

Particulars	Unit	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Base Rate of Return on Equity on Additional Capitalization after Cut-off Date ¹	%					
Tax Rate	%	17.472%	17.472%	17.472%	17.472%	17.472%
Effective Tax Rate ²	%					
Target Availability - HVDC System	%	95%	95%	95%	95%	95%
Target Availability - AC System	%	98%	98%	98%	98%	98%
Normative O&M per km	Rs. Lakh	As shown in Form 2				
Normative O&M per bay	Rs. Lakh					
Normative O&M per MVA/MVAr	Rs. Lakh					
Spares for WC as % of O&M	%	15%	15%	15%	15%	15%
Receivables in Days for WC	Days	45	45	45	45	45
Reference Rate as on first day of financial year ³	%	11.90%	11.90%	11.90%	11.90%	11.90%

1. The additional capitalization to be equivalent to one year MCLR+350 bps subject to a ceiling of 14.00% in accordance with first Proviso to Regulation 30(3).

2. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 31.

3. For Tariff Petition, it should be 1.4.2024, while for True-up Petition, it should be 1st April of the respective financial years.



Petitioner

Statement of Additional Capitalisation after COD

Name of the transmission Asset: 4500 kV bipole Mundra-Mohindergarh, 400 kV D/C Mohindergarh-Bhirwani (PG) & Mohindergarh-Dharuadra Transmission line with associated substations and other equipments
COD: 1.10.2013

(Amount in Rs. Lakh)

FY 2014-15				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	1,500.00	-	-	1,500.00
PLCC	-	-	-	-
Total	1,500.00	-	-	1,500.00

FY 2015-16				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	10,500.00	-	-	10,500.00
PLCC	-	-	-	-
Total	10,500.00	-	-	10,500.00

FY 2016-17				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	500.00	-	-	500.00
PLCC	-	-	-	-
Total	500.00	-	-	500.00

FY 2017-18				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2018-19				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

B) Regulation wise ACE claim on Cash basis					
Regulation No.	Particulars	2014-15	2015-16	2016-17	2017-18
Total Under Regulation 24					
Reg. 24	ACE within the original scope and after the cut-off date				
24 (1) (a)	Liabilities to meet award of arbitration etc.				
24 (1) (b)	Change in law or compliance of any existing law				
24 (1) (d)	Liabilities for works executed prior to the cut-off date				
24 (1) (e)	Force Majeure Events				
24 (1) (f)	Liabilities for works admitted by the commission after the cut-off date				
Total Under Regulation 25					
Reg. 25	ACE within the original scope :				
25 (1) (a)	Liabilities to meet award of arbitration etc.				
25 (1) (b)	Change in law or compliance of any existing law				
25 (1) (c)	Force Majeure Events				
25 (1) (d)	Need for higher security and safety of the plant				
25 (1) (i)	Expenditure necessary for efficient operation including works required towards projects acquired through NCLT process 5	1,500.00	10,500.00	500.00	
Total Under Regulation 26		1,500.00	10,500.00	500.00	
Total ACE claimed for tariff					
Total Admitted ACE during Final tariff					

Note:

- In case the true up, provide the ACE allowed in final tariff and enclose the copy of the tariff order(s).
- Year wise details of the Work/Equipment proposed to be added after COD upto Cut-off Date/ beyond Cut-off Date has to be provided along with justification
- In case of de-capitalisation of assets details to be furnished in Form 103
- No ACE towards assets individually costing below Rs. 20 lakh shall be claimed by the Petitioner
- The capital cost as per books of accounts and liability should be supported by Auditor Certificate
- Claim to be substantiated with technical justification and cost benefit analysis



Financing of Additional Capitalisation

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)

Financial Year (starting from COD)	Actual/Projected					Admitted				
	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipment	1,500.00	10,500.00	500.00	-	-	-	-	-	-	-
Financing Details										
Loan- 1	1,050.00	7,350.00	350.00	-	-	-	-	-	-	-
Loan- 2										
Loan-3 and so on						-	-	-	-	-
Total Loan	1,050.00	7,350.00	350.00	-	-	-	-	-	-	-
Equity	450.00	3,150.00	150.00	-	-	-	-	-	-	-
Internal Resources						-	-	-	-	-
Others	-	-	-	-	-	-	-	-	-	-
Total	1,500.00	10,500.00	500.00	-	-	-	-	-	-	-

Note:

1. Year 1 refers to Financial Year of COD in case of new elements. For existing elements it is from 2024-25 and Year 2, Year 3 etc. are the subsequent financial years respectively.

2. Loan details for meeting the additional capitalisation requirement should be given as per FORM-9 or 9(A) whichever is relevant.



Calculation of Return on Equity at Normal Rate

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani
(PG) & Mohindergarh-Dhanonda Transmission line with associated substations
and other equipments

(Amount in Rs. Lakh)

S.No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	No. of Days in the year	365	365	365	366	365
	No. of days for which tariff claimed	365	365	365	366	365
1	Opening Normative Equity	116,525	116,975	120,125	120,275	120,275
2	Less: Adjustment in Equity*	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-
4	Net Opening Equity (Normal)	116,525	116,975	120,125	120,275	120,275
5	Add: Increase in Equity due to addition during the year/period	450	3,150	150	-	-
6	Less: Decrease due to de-capitalisation during the year/period.	-	-	-	-	-
7	Add: Increase due to discharges during the year/period	-	-	-	-	-
8	Closing Normative Equity	116,975	120,125	120,275	120,275	120,275
9	Average Normative Equity	116,750	118,550	120,200	120,275	120,275
11	Rate of Return on Equity (Base Rate)	15.50%	15.50%	15.50%	15.50%	15.50%
12	Reduced rate of 1% decided by commission under Regulation 30 (2) (if any)					
13	Effective tax rate / MAT rate for the respective years	17.47%	17.47%	17.47%	17.47%	17.47%
14	Rate of Return on Equity (Pre Tax)	18.78%	18.78%	18.78%	18.78%	18.78%
15	Return on Equity on project cost till Cutoff date (Pre Tax)	21,927	22,265	22,575	22,589	22,589

Note: 1 Adjustment of equity as per Proviso to Regulation 18(3) of 2024 Tariff Regulations.
2. In respect to Equity infusion the Transmission Licensee is required to substantiate with supporting documents such as board resolutions, balance sheet/ reconciliation statement with balance sheet.

(Petitioner)

PART-III
FORM- 9C**Calculation of Weighted Average Rate of Interest on Actual Loans I**

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-
Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated
substations and other equipments

(Amount in Rs. Crs)

Sr. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	I	3	4	5	6	7
1	Inter-Company Deposit					
	Net loan - Opening	407.25	382.25	357.25	332.25	307.25
	Add: Drawal(s) during the Year	-	-	-	-	-
	Less: Repayment (s) of Loans during the year	25.00	25.00	25.00	25.00	25.00
	Net loan - Closing	382.25	357.25	332.25	307.25	282.25
	Average Net Loan	394.75	369.75	344.75	319.75	294.75
	Rate of Interest on Loan on derived basis based on interest paid divided by Average of Opening and Closing Balance of Loan	13.25%	13.25%	13.25%	13.25%	13.25%
	Interest on loan	52.30	48.99	45.68	42.37	39.05
3	Total Loan					
	Net loan - Opening	407.25	382.25	357.25	332.25	307.25
	Add: Drawal(s) during the Year	-	-	-	-	-
	Less: Repayment (s) of Loans during the year	25.00	25.00	25.00	25.00	25.00
	Net loan - Closing	382.25	357.25	332.25	307.25	282.25
	Average Net Loan	394.75	369.75	344.75	319.75	294.75
	Interest on loan	52.30	48.99	45.68	42.37	39.05
	Weighted average Rate of interest on Loans	13.25%	13.25%	13.25%	13.25%	13.25%

Note:1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished as per Form 9(D). However, the calculation in original currency is also to be furnished separately in the same form.

2. In case of already commissioned combined assets the details may be provided asset wise as well as combined.

3. Details of Financing Charges.



PART-III
FORM-9ECalculation of Interest on Normative Loan

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) &
Mohindergarh-Dhanonda Transmission line with associated substations and other
equipments

(Amount in Rs. Lakh)

S.No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	No. of Days in the year	365	365	365	366	365
	No. of days for which tariff claimed	365	365	365	366	365
1	Gross Normative loan - Opening	271,891.94	272,941.94	280,291.94	280,641.94	280,641.94
2	Cumulative repayment of Normative Loan upto previous year	206,290.24	226,123.90	246,274.36	252,665.63	259,070.11
3	Net Normative loan - Opening	65,601.70	46,818.04	34,017.58	27,976.31	21,571.83
4	Addition in Normative loan towards the ACE	1,050.00	7,350.00	350.00	-	-
5	Adjustment of Normative Gross loan pertaining to the decapitalised asset.	-	-	-	-	-
6	Normative Repayments of Normative Loan during the year	19,833.66	20,150.46	6,391.27	6,404.47	6,404.47
7	Adjustment of Cum. repayment pertaining to the decapitalised asset.	-	-	-	-	-
8	Net Normative loan - Closing	46,818.04	34,017.58	27,976.31	21,571.83	15,167.36
9	Average Normative Loan	56,209.87	40,417.81	30,996.94	24,774.07	18,369.60
10	Weighted average Rate of Interest of actual Loans	13.25%	13.25%	13.25%	13.25%	13.25%
11	Interest on Normative loan	7,447.81	5,355.36	4,107.09	3,282.56	2,433.97



(Petitioner)

PART-III
FORM- 10Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-
Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with
(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2024	Additional Capitalization During FY 2024-25	Gross Block as on 31.03.2025	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2024-25
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	149,859	-	149,859	5.28%	7,913
2	Substation equipments	207,435	1,500	208,935	5.28%	10,992
3	Free hold Land	5,770	-	5,770	0.00%	-
4	Leasehold Land	1,031	-	1,031	3.34%	34
5	PLCC	2,447	-	2,447	6.33%	155
6	Furniture / Fixture	101	-	101	6.33%	6
7	Civil Works & Building	21,575	-	21,575	3.34%	721
8	Office Equipments	199	-	199	6.33%	13
	Total	388,417	1,500	389,917	5.10%	19,834
	Weighted Average Rate of Depreciation (%)					5.11%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2025	Additional Capitalization During FY 2025-26	Gross Block as on 31.03.2026	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2025-26
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	149,859.08	-	149,859.08	5.28%	7,912.56
2	Substation equipments	208,934.86	10,500.00	219,434.86	5.28%	11,308.96
3	Free hold Land	5,769.56	-	5,769.56	0.00%	-
4	Leasehold Land	1,031.50	-	1,031.50	3.34%	34.45
5	PLCC	2,446.60	-	2,446.60	6.33%	154.87
6	Furniture / Fixture	101.35	-	101.35	6.33%	6.42
7	Civil Works & Building	21,575.35	-	21,575.35	3.34%	720.62
8	Office Equipments	198.84	-	198.84	6.33%	12.59
	Total	389,917.13	10,500.00	400,417.13	5.10%	20,150
	Weighted Average Rate of Depreciation (%)					5.17%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2026	Additional Capitalization During FY 2026-27	Gross Block as on 31.03.2027	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2026-27
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	149,859.08	-	149,859.08	5.28%	
2	Substation equipments	219,434.86	500.00	219,934.86	5.28%	646.80
3	Free hold Land	5,769.56	-	5,769.56	0.00%	
4	Leasehold Land	1,031.50	-	1,031.50	3.34%	
5	PLCC	2,446.60	-	2,446.60	6.33%	
6	Furniture / Fixture	101.35	-	101.35	6.33%	
7	Civil Works & Building	21,575.35	-	21,575.35	3.34%	
8	Office Equipments	198.84	-	198.84	6.33%	
	Total	400,417.13	500.00	400,917.13	1.60%	6,391.27
	Weighted Average Rate of Depreciation (%)					1.60%



PART-III
FORM- 10Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-
Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2027	Additional Capitalization During FY 2027-28	Gross Block as on 31.03.2028	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2027-28
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	149,859.08	-	149,859.08	5.28%	
2	Substation equipments	219,934.86	-	219,934.86	5.28%	660.00
3	Free hold Land	5,769.56	-	5,769.56	0.00%	
4	Leasehold Land	1,031.50	-	1,031.50	3.34%	
5	PLCC	2,446.60	-	2,446.60	6.33%	
6	Furniture / Fixture	101.35	-	101.35	6.33%	
7	Civil Works & Building	21,575.35	-	21,575.35	3.34%	
8	Office Equipments	198.84	-	198.84	6.33%	
	Total	400,917.13	-	400,917.13	1.60%	6,404.47
	Weighted Average Rate of Depreciation (%)					1.60%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2028	Additional Capitalization During FY 2028-29	Gross Block as on 31.03.2029	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2028-29
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	149,859.08	-	149,859.08	5.28%	
2	Substation equipments	219,934.86	-	219,934.86	5.28%	660.00
3	Free hold Land	5,769.56	-	5,769.56	0.00%	
4	Leasehold Land	1,031.50	-	1,031.50	3.34%	
5	PLCC	2,446.60	-	2,446.60	6.33%	
6	Furniture / Fixture	101.35	-	101.35	6.33%	
7	Civil Works & Building	21,575.35	-	21,575.35	3.34%	
8	Office Equipments	198.84	-	198.84	6.33%	
	Total	400,917.13	-	400,917.13	1.60%	6,404.47
	Weighted Average Rate of Depreciation (%)					1.60%

Note:

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.
2. For Existing Project Depreciation Rate shall be as per Appendix-I while for New Project the rate shall be as per Appendix-II.



PART-III
FORM- 10A

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)

Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1	Opening Capital Cost	388,417.13	389,917.13	400,417.13	400,917.13	400,917.13
2	Closing Capital Cost	389,917.13	400,417.13	400,917.13	400,917.13	400,917.13
3	Average Capital Cost	389,167.13	395,167.13	400,667.13	400,917.13	400,917.13
4	Freehold land	5,769.56	5,769.56	5,769.56	5,769.56	5,769.56
5	Rate of depreciation	5.11%	5.17%	1.60%	1.60%	1.60%
6	Depreciable value	345,732.82	355,182.82	355,632.82	355,632.82	355,632.82
7	Balance useful life at the beginning of the period					
8	Remaining depreciable value	139,442.57	129,058.91	109,358.45	102,967.18	96,562.71
9	Depreciation (for the period)	19,833.66	20,150.46	6,391.27	6,404.47	6,404.47
10	Depreciation (annualised)	19,833.66	20,150.46	6,391.27	6,404.47	6,404.47
11	Cumulative depreciation at the end of the period	226,123.90	246,274.36	252,665.63	259,070.11	265,474.58
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	226,123.90	246,274.36	252,665.63	259,070.11	265,474.58



PART-III
FORM- 11

Calculation of Interest on Working Capital

Name of the transmission Asset:

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other equipments

(Amount in Rs. Lakh)						
Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
I	No. of Days in the year	365	365	365	366	365
II	No. of days for which tariff claimed	365	365	365	366	365
1	O & M Expenses - one month	438.48	467.33	495.19	527.12	554.14
2	Maintenance Spares 15% of O&M Expenses	789.26	841.20	891.34	948.82	997.45
3	Receivables equivalent to 45 days of AFC	6,833.83	6,698.49	4,902.46	4,838.54	4,787.50
4	Total Working Capital	8,061.57	8,007.02	6,289.00	6,314.49	6,339.09
5	Reference rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	11.90%	11.90%	11.90%	11.90%	11.90%
6	Interest on Working Capital	959.33	952.84	748.39	751.42	754.35


(Petitioner)

Summary of issue involved in the petition

1	Name of the Petitioner	Adani Transmission (India) Limited	
2	Petition Category	Transmission	
3	Tariff Period	2024-29	
4	Name of the Project	±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with associated substations and other	
5	Investment Approval date		
6	SCOD of the Project		
7	Actual COD of the project		
8	Whether entire scope is covered in the present petition.	Yes	
9	No. of Assets covered in instant petition	1	
10	No. of Assets having time over run	Nil	
11	Estimated Project Cost as per IA		
12	Is there any REC? if so, provide the date	No	
13	Revised Estimated Project Cost (if any)	Nil	
14	Completion cost for all the assets covered in the instant petition		
15	No. of Assets covered in instant petition and having cost overrun	Nil	
16	Prayer in brief	Approval of Tariff for Mundra -Mohindergarh,Mohindergarh-Bhiwani, Mohindergarh-Dhanonda transmission line	
17	Key details and any Specific issue involved		
18	Respondents		
	Name of Respondents		
	PGCIL	WRPC	NLDC
	Daman and Diu Electricity Department	NRLDC	NDMC
	Goa State Electricity Board	BRPL	UPCL
	Heavy water Projects, Department of Atomic Energy	JPL	CEA
	Electricity Department UT Chandigarh	TPL	WRPC
	Kanpur Electricity Supply Company Limited	PTC india	PDD
	Haryana Power Purchase Centre	HVPNL	HPSEB
	Rajasthan Power Procurement Centre	GUVNL	NRPC
	Jodhpur Vidyut Vitran Nigam Limited	MSDCL	RRVNL
	Jaipur Vidyut Vitran Nigam Limited	MPPMCL	GETCO
	Ajmer Vidyut Vitran Nigam Limited	MPAKVNL	PSPCL
	Delhi Transco Limited	BYPL	TPDDL
	North Central Railway	CSPDCL	UPPCL



PART-III
FORM A**Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.**

Name of the Petitioner

Adani Transmission (India) Limited

Tariff Period 2024-29

2024-29

Name of the Transmission Project

±500 kV bipole Mundra-Mohindergarh , 400 kV D/C Mohindergarh-Bhiwani (PG) & Mohindergarh-Dhanonda Transmission line with

COD of the Project (if entire scope of project is completed)

A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.

Sr. No.	Asset No.	COD	Cut off date	Summary of Actual / Projected Capital Cost						Capital Cost as on 31.03.2029
				As on 31.03.2024	2024-25	2025-26	2026-27	2027-28	2028-29	
1	Asset 1	10/1/2013	3/31/2016	388,417.13	1,500.00	10,500.00	500.00	-	-	400,917.13
Total Capital Cost Claimed										400,917.13

B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.

S. No.	Asset No.	2024-25	2025-26	2026-27	2027-28	2028-29
1	Asset 1	55,429.95	54,332.17	39,764.43	39,353.43	38,831.94
Total AFC for all the Assets		55,429.95	54,332.17	39,764.43	39,353.43	38,831.94



Appendix-I

PART-III

**TARIFF FILING FORMS (TRANSMISSION &
COMMUNICATION SYSTEM)**

**FOR DETERMINATION OF TARIFF
FY 2024-25 to FY 2028-29**



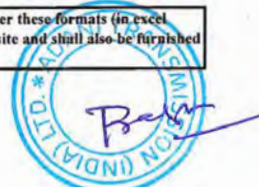
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PART-III

Checklist of Forms and other information/ documents for tariff filing for Transmission System & Communication System

Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM- 1	Summary of Tariff	Y
FORM- 1A	Summary of Asset level cost	Y
FORM-2	Details of Transmission Lines and Substation and Communication System covered in the project scope and O&M for instant asset	Y
FORM-3	Normative parameters considered for tariff computations	Y
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	NA
FORM- 4A	Statement of Capital cost	NA
FORM- 4B	Statement of Capital Works in Progress	NA
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	NA
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	NA
FORM-5A	Break-up of Construction/Supply/Service packages	NA
FORM-5B	Details of all the assets covered in the project	NA
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	Y
FORM- 7	Statement of Additional Capitalisation after COD	Y
FORM- 7A	Financing of Additional Capitalisation	Y
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	NA
FORM- 8	Calculation of Return on Equity	Y
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	Y
FORM-9D	Loans in Foreign Currency	NA
FORM-9E	Calculation of Interest on Normative Loan	Y
FORM- 10	Calculation of Depreciation Rate on original project cost	Y
FORM- 10A	Statement of Depreciation	Y
FORM- 10B	Statement of De-capitalisation	NA
FORM- 11	Calculation of Interest on Working Capital	Y
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	NA
FORM- 13	Details of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM- 15	Summary of issue involved in the petition	Y
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	Y
Other Information/ Documents		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign	NA
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	NA
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2024-25 and 2025-26 at the time of mid-term true-up in 2026- 27 and for balance period of tariff period 2024-29 at the time of final true-up in 2029-30. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10	Any other relevant information, (Please specify)	

Note1: Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.



Summary of Tariff

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

Sr. No.	Particulars	Form No.	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1.1	Depreciation	Form 10A	2,840	2,866	678	688	688
1.2	Interest on Loan	Form 9E	1,001	670	451	370	279
1.3	Return on Equity ¹	Form 8	3,089	3,117	3,127	3,133	3,133
1.4	Interest on Working Capital	Form 11	154	152	119	121	123
1.5	O & M Expenses	Form 2	1,168	1,232	1,297	1,367	1,443
	Total AFC		8,251	8,038	5,673	5,679	5,666

Note: This Form is a summary form and the Data to this form should flow from other base forms.



PART-III
FORM- 1A

Summary of Asset Level Cost

Name of the transmission Asset: 400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

A) Summary of Capital Cost, Means of Finance of the Asset

Particulars	Summary of Actual / Projected Capital Cost						As on 31.03.2029
	As on 01.04.2024	2024-25	2025-26	2026-27	2027-28	2028-29	
Transmission Line	40,371.96	864.00	-	-	-	-	41,235.96
Substation equipments	12,064.08	-	150.00	200.00	-	-	12,414.08
Free hold Land	593.89	-	-	-	-	-	593.89
Leasehold Land	328.93	-	-	-	-	-	328.93
PLCC	78.75	-	-	-	-	-	78.75
Furniture / Fixture	-	-	-	-	-	-	-
Building & Civil Works	925.28	-	-	-	-	-	925.28
Office Equipments	22.00	-	-	-	-	-	22.00
Total	54,384.90	864.00	150.00	200.00	-	-	55,598.90

Note: This form is a summary form and the data to this form should flow from other base forms.



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset: 400 kV D/c Mundra - Dehgam Transmission Line with Associated System

1) Transmission lines

Sr. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line Length km	Date of Commercial Operation	Covered in the present petition	
								Yes/No	If No, Petition No.
1	Mundra - Sami Line	AC	D/C	Twin Moose	400kV	282	ckt-1: 04.07.2009 ckt-2: 13.07.2009	Y	-
2	Sami - Dehgam Line	AC	D/C	Twin Moose	400kV	152	ckt-1: 04.07.2009 ckt-2: 13.07.2009	Y	-

Summary:

O&M Expenses for Transmission lines covered in the instant petition	2024-25	2025-26	2026-27	2027-28	2028-29
Normative rate of O&M as per Regulation - Double Circuit (Twin Conductor) (Rupees in Lakh)	0.86	0.91	0.95	1.00	1.06
Length in km	434	434	434	434	434
O&M Claimed (Rupees in Lakh)	373.67	393.20	413.60	435.30	458.30

2) Substations

Sr. No.	Name of Sub-station	Type of Substation Conventional (Greenfield/Brownfield)/GIS/HVDC terminal/ HVDC Back to Back	Voltage level kV	No. of transformers / Reactor/ SVC etc. (with capacity)	No. of Bays		Date of Commercial Operation	Covered in the present Petition	
					400 kV	220 kV		Yes/No	If No, petition No.
1	Mundra Switchyard	AC	400 kV	a) 2 Nos. 315 MVA, 400/220kV ICT; b) Bus Reactor: 2 Nos. 3 x 27 MVAR	4	2	04.07.2009	Y	-
2	Sami Substation	AC	400 kV	Bus Reactor: 1 No. 1 x 50 MVAR; Line Reactor: 2 Nos. 1 x 50 MVAR FSC: 38% series compensation	7		04.07.2009	Y	-
3	Dehgam (PG) Substation	AC	400 kV		2		04.07.2009	Y	-

Summary:

O&M Expenses for substations covered in the instant petition	2024-25	2025-26	2026-27	2027-28	2028-29
Normative rate of O&M as per Regulation (Rupees in Lakh)	29.53	31.08	32.71	34.43	36.23
No. of Bays	13	13	13	13	13
O&M Claimed (Rupees in Lakh)	384	404	425	448	471
Normative rate of O&M as per Regulation (Rupees in Lakh)	20.67	21.75	22.90	24.10	25.36
No. of Bays	2	2	2	2	2
O&M Claimed (Rupees in Lakh)	41	44	46	48	51
Normative rate of O&M as per Regulation (Rupees in Lakh)	0.26	0.28	0.29	0.31	0.32
MVA Capacity (Mundra & Sami)	276	276	276	276	276
O&M Claimed (Rupees in Lakh)	72	76	80	84	89
Normative rate of O&M as per Regulation (Rupees in Lakh)	0.26	0.28	0.29	0.31	0.32
MVA Capacity of FSC	846	846	846	846	846
O&M Claimed (Rupees in Lakh)	222	234	245	258	273

- Note: 1. Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bays, line bays, reactor bays shall be considered separately for purpose of O&M expenses.
2. The MVA Capacity shall exclude the capacity of reactor, FSC, Stat Ccm
3. O&M expenses for Transmission Licensees whose transmission assets are located solely in NE Region (including Sikkim), States of Uttarakhand, Himachal Pradesh, the Union Territories of Jammu and



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

3) Communication System:

S. No.	Name of Communication System	Type of Communication System - Communication System under ULDC/SCADA/WAMS/Fibre Optic Communication	Length of OPGW links	Date of Commercial operation	Covered in the present Petition	
					Yes/No	If No, Petition No.
1	PLCC SAMI-MUNDRA-1	PLCC	282 Km		Yes	-
2	PLCC SAMI-MUNDRA-2	PLCC	282 Km		Yes	-
3	PLCC SAMI-DEHGAM-1	PLCC	152 Km		Yes	-
4	PLCC SAMI-DEHGAM-2	PLCC	152 Km		Yes	-
5	MUNDRA SPEECH	PADIX	282 Km		Yes	-
6	DEHGAM SPEECH	PADIX	152 Km		Yes	-
7	BSNL LEASE LINE	RTU	1 No.		Yes	-

Summary:**O&M Expenses for the Communication System covered in the instant petition**

(The original project cost / Asset related to the communication system)

	2024-25	2025-26	2026-27	2027-28	2028-29
		2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost
O&M expenses as per regulations (2% of Original Project Cost)	1.57	1.57	1.57	1.57	1.57
Estimated O&M Expense (Rupees in Lakh)*		78.75			

Note : 1. The O&M expenses as per regulation shall be worked on based on estimated project cost

2. Expenses in case of U-NMS shall be allowed on actual basis after due prudency check

*The actual O&M expenses to be provided at the time of true up

4) Summary of O&M Expenses claim:

Sr. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
A) Normative O&M						
1	Transmission Line	373.67	393.20	413.60	433.30	458.30
2	Substation	497.54	523.72	551.07	579.97	610.58
3	Communication system	1.57	1.57	1.57	1.57	1.57
	Total Normative O&M	872.79	918.49	966.25	1,016.85	1,070.46
B) O&M Claimed under Regulation 36 (3)(d)						
	Security Expenses	25.00	30.00	35.00	42.00	50.00
	Actual Capital Spares consumed ¹	-	-	-	-	-
	Insurance Premium Paid ²	48.95	49.72	49.86	50.04	50.04
	Total Normative O&M	73.95	79.72	84.86	92.04	100.04
C) O&M Claimed under Regulation 36 (3)(b)						
	FSC	221.76	233.61	243.46	258.15	272.54
	Total O&M Expenses claimed	1,168.49	1,231.83	1,296.56	1,367.04	1,443.04

Note: The security expenses and Capital Spares are to be submitted on estimated basis for the purpose of O&M expenses. In case of additional security deployed, the petitioner shall indicate the same. The actual security and Capital Spares expenses to be provided at the time of true up

1. List of Capital Spares to be provided at the time of true up. Further, no Capital Spares individually costing upto Rs. 10 lakh shall be claimed.

2. At the time of determination of tariff Insurance Premium shall be estimated which shall be subject to true up on the basis of actuals.



Normative Parameters considered for tariff calculations

Name of the transmission Asset: 400 kV D/c Mundra - Dehgam Transmission Line with Associated System

Particulars	Unit	Year Ending March				
		2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Base Rate of Return on Equity on Additional Capitalization after Cut-off Date ¹	%					
Tax Rate	%	17.472%	17.472%	17.472%	17.472%	17.472%
Effective Tax Rate ²	%					
Target Availability - HVDC System	%	95%	95%	95%	95%	95%
Target Availability - AC System	%	98%	98%	98%	98%	98%
Normative O&M per km	Rs. Lakh	As shown in Form 2				
Normative O&M per bay	Rs. Lakh					
Normative O&M per MVA/MVAr	Rs. Lakh					
Spares for WC as % of O&M	%	15%	15%	15%	15%	15%
Receivables in Days for WC	Days	45	45	45	45	45
Reference Rate as on first day of financial year ³	%	11.90%	11.90%	11.90%	11.90%	11.90%

1. The additional capitalization to be equivalent to one year MCLR+350 bps subject to a ceiling of 14.00% in accordance with first Proviso to Regulation 30(3).

2. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 31.

3. For Tariff Petition, it should be 1.4.2024, while for True-up Petition, it should be 1st April of the respective financial years.



Statement of Additional Capitalization after COD

Name of the transmission Asset: 400 kV Dle Mandra - Dehgam Transmission Line with Associated System
COD: 1.10.2013

(Amount in Rs. Lakh)

FY 2024-25				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	864.00	-	-	864.00
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	864.00	-	-	864.00

FY 2025-26				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	150.00	-	-	150.00
PLCC	-	-	-	-
Total	150.00	-	-	150.00

FY 2026-27				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	200.00	-	-	200.00
PLCC	-	-	-	-
Total	200.00	-	-	200.00

FY 2027-28				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2028-29				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

B) Regulation wise ACE claim on Cash basis

Regulation No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Total Under Regulation 24						
Reg. 25	ACE within the original scope and after the cut-off date					
25 (1) (a)	Liabilities to meet award of arbitration etc.					
25 (1) (b)	Change in law or compliance of any existing law					
25 (1) (d)	Liabilities for works executed prior to the cut-off date					
25 (1) (e)	Force Majeure Events					
25 (1) (f)	Liabilities for works admitted by the commission after the cut-off date					
Total Under Regulation 25						
Reg. 26	ACE within the original scope :					
26 (1) (a)	Liabilities to meet award of arbitration etc.					
26 (1) (b)	Change in law or compliance of any existing law					
26 (1) (c)	Force Majeure Events					
26 (1) (d)	Need for higher security and safety of the plant					
26 (1) (i)	Expenditure necessary for efficient operation including works required towards projects acquired through NCLT process 3	864.00	150.00	200.00		
Total Under Regulation 26						
		864.00	150.00	200.00		
Total ACE claimed for tariff						
Total Admitted ACE during Final tariff¹						

Note:

- In case the true up, provide the ACE allowed in final tariff and enclose the copy of the tariff order(s).
- Year wise details of the Work/Equipment proposed to be added after COD upto Cut-off Date/ beyond Cut-off Date has to be provided along with justification
- In case of de-capitalisation of assets details to be furnished in Form 10B.
- No ACE towards assets individually costing below Rs. 10 lakh shall be claimed by the Petitioner
- The capital cost as per books of accounts and liability should be supported by Auditor Certificate
- Claim to be substantiated with technical justification and cost benefit analysis



Financing of Additional Capitalisation

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

Financial Year (starting from COD)	Actual/Projected					Admitted				
	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipment	864.00	150.00	200.00	-	-	-	-	-	-	-
Financing Details										
Loan- 1	604.80	105.00	140.00	-	-	-	-	-	-	-
Loan -2										
Loan-3 and so on										
Total Loan	604.80	105.00	140.00	-	-	-	-	-	-	-
Equity	259.20	45.00	60.00	-	-	-	-	-	-	-
Internal Resources										
Others	-	-	-	-	-	-	-	-	-	-
Total	864.00	150.00	200.00	-	-	-	-	-	-	-

Note:

1. Year 1 refers to Financial Year of COD in case of new elements. For existing elements it is from 2024-25 and Year 2, Year 3 etc. are the subsequent financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per FORM-9 or 9(A) whichever is relevant.



(Petitioner)

PART-III
FORM- 8

Calculation of Return on Equity at Normal Rate

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)						
S.No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	No. of Days in the year	365	365	365	366	365
	No. of days for which tariff claimed	365	365	365	366	365
1	Opening Normative Equity	16,315.41	16,574.61	16,619.61	16,679.61	16,679.61
2	Less: Adjustment in Equity*	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-
4	Net Opening Equity (Normal)	16,315.41	16,574.61	16,619.61	16,679.61	16,679.61
5	Add: Increase in Equity due to addition during the year/period	259.20	45.00	60.00	-	-
6	Less: Decrease due to de-capitalisation during the year/period.	-	-	-	-	-
7	Add: Increase due to discharges during the year/period	-	-	-	-	-
8	Closing Normative Equity	16,574.61	16,619.61	16,679.61	16,679.61	16,679.61
9	Average Normative Equity	16,445.01	16,597.11	16,649.61	16,679.61	16,679.61
11	Rate of Return on Equity (Base Rate)	15.50%	15.50%	15.50%	15.50%	15.50%
12	Reduced rate of 1% decided by commission under Regulation 30 (2) (if any)					
13	Effective tax rate / MAT rate for the respective years	17.47%	17.47%	17.47%	17.47%	17.47%
14	Rate of Return on Equity (Pre Tax)	18.78%	18.78%	18.78%	18.78%	18.78%
15	Return on Equity on project cost till Cutoff date (Pre Tax)	3,088.62	3,117.19	3,127.05	3,132.68	3,132.68

Note: 1 Adjustment of equity as per Proviso to Regulation 18(3) of 2024 Tariff Regulations.
2. In respect to Equity infusion the Transmission Licensee is required to substantiate with supporting documents such as board resolutions, balance sheet/ reconciliation statement with balance sheet.

(Petitioner)

PART-III
FORM- 9C

Calculation of Weighted Average Rate of Interest on Actual Loans I

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Crs)

Sr. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	I	3	4	5	6	7
1	Inter-Company Deposit					
	Net loan - Opening	407.25	382.25	357.25	332.25	307.25
	Add: Drawal(s) during the Year	-	-	-	-	-
	Less: Repayment (s) of Loans during the year	25.00	25.00	25.00	25.00	25.00
	Net loan - Closing	382.25	357.25	332.25	307.25	282.25
	Average Net Loan	394.75	369.75	344.75	319.75	294.75
	Rate of Interest on Loan on derived basis based on interest paid divided by Average of Opening and Closing Balance of Loan	13.25%	13.25%	13.25%	13.25%	13.25%
	Interest on loan	52.30	48.99	45.68	42.37	39.05
3	Total Loan					
	Net loan - Opening	407.25	382.25	357.25	332.25	307.25
	Add: Drawal(s) during the Year	-	-	-	-	-
	Less: Repayment (s) of Loans during the year	25.00	25.00	25.00	25.00	25.00
	Net loan - Closing	382.25	357.25	332.25	307.25	282.25
	Average Net Loan	394.75	369.75	344.75	319.75	294.75
	Interest on loan	52.30	48.99	45.68	42.37	39.05
	Weighted average Rate of interest on Loans	13.25%	13.25%	13.25%	13.25%	13.25%

Note:1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished as per Form 9(D). However, the calculation in original currency is also to be furnished separately in the same form.

2. In case of already commissioned combined assets the details may be provided asset wise as well as combined.

3. Details of Financing Charges.



PART-III
FORM-9ECalculation of Interest on Normative Loan

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

S.No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	No. of Days in the year	365	365	365	366	365
	No. of days for which tariff claimed	365	365	365	366	365
1	Gross Normative loan - Opening	38,069.29	38,674.09	38,779.09	38,919.09	38,919.09
2	Cumulative repayment of Normative Loan upto previous year	29,397	32,237	35,103	35,782	36,469
3	Net Normative loan - Opening	8,672.31	6,437.41	3,675.94	3,137.45	2,449.71
4	Addition in Normative loan towards the ACE	604.80	105.00	140.00	-	-
5	Adjustment of Normative Gross loan pertaining to the decapitalised asset.	-	-	-	-	-
6	Normative Repayments of Normative Loan during the year	2,839.70	2,866.47	678.49	687.73	687.73
7	Adjustment of Cum. repayment pertaining to the decapitalised asset.	-	-	-	-	-
8	Net Normative loan - Closing	6,437.41	3,675.94	3,137.45	2,449.71	1,761.98
9	Average Normative Loan	7,554.86	5,056.67	3,406.69	2,793.58	2,105.85
10	Weighted average Rate of Interest of actual Loans	13.25%	13.25%	13.25%	13.25%	13.25%
11	Interest on Normative loan	1,001.02	670.01	451.39	370.15	279.02



PART-III
FORM- 10Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2024	Additional Capitalization During FY 2024-25	Gross Block as on 31.03.2025	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2024-25
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	40,371.96	864.00	41,235.96	5.28%	2,154.45
2	Substation equipments	12,064.08	-	12,064.08	5.28%	636.98
3	Free hold Land	593.89	-	593.89	0.00%	-
4	Leasehold Land	328.93	-	328.93	3.34%	10.99
5	PLCC	78.75	-	78.75	6.33%	4.98
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	925.28	-	925.28	3.34%	30.90
8	Office Equipments	22.00	-	22.00	6.33%	1.39
	Total	54,384.90	864.00	55,248.90	5.18%	2,839.70
	Weighted Average Rate of Depreciation (%)					5.22%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2025	Additional Capitalization During FY 2025-26	Gross Block as on 31.03.2026	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2025-26
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	41,235.96	-	41,235.96	5.28%	2,177.26
2	Substation equipments	12,064.08	150.00	12,214.08	5.28%	640.94
3	Free hold Land	593.89	-	593.89	0.00%	-
4	Leasehold Land	328.93	-	328.93	3.34%	10.99
5	PLCC	78.75	-	78.75	6.33%	4.98
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	925.28	-	925.28	3.34%	30.90
8	Office Equipments	22.00	-	22.00	6.33%	1.39
	Total	55,248.90	150.00	55,398.90	5.18%	2,866.47
	Weighted Average Rate of Depreciation (%)					5.19%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2026	Additional Capitalization During FY 2026-27	Gross Block as on 31.03.2027	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2026-27
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	41,235.96	-	41,235.96	5.28%	45.62
2	Substation equipments	12,214.08	200.00	12,414.08	5.28%	9.24
3	Free hold Land	593.89	-	593.89	0.00%	-
4	Leasehold Land	328.93	-	328.93	3.34%	-
5	PLCC	78.75	-	78.75	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	925.28	-	925.28	3.34%	-
8	Office Equipments	22.00	-	22.00	6.33%	-
	Total	55,398.90	200.00	55,598.90	1.22%	678.49
	Weighted Average Rate of Depreciation (%)					1.22%



PART-III
FORM- 10Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

400 kV D/e Mundra - Dehgam Transmission Line with Associated System

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2027	Additional Capitalization During FY 2027-28	Gross Block as on 31.03.2028	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2027-28
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	41,235.96	-	41,235.96	5.28%	45.62
2	Substation equipments	12,414.08	-	12,414.08	5.28%	18.48
3	Free hold Land	593.89	-	593.89	0.00%	
4	Leasehold Land	328.93	-	328.93	3.34%	
5	PLCC	78.75	-	78.75	6.33%	
6	Furniture / Fixture	-	-	-	6.33%	
7	Civil Works & Building	925.28	-	925.28	3.34%	
8	Office Equipments	22.00	-	22.00	6.33%	
	Total	55,598.90	-	55,598.90	1.24%	687.73
	Weighted Average Rate of Depreciation (%)					1.24%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2028	Additional Capitalization During FY 2028-29	Gross Block as on 31.03.2029	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2028-29
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	41,235.96	-	41,235.96	5.28%	45.62
2	Substation equipments	12,414.08	-	12,414.08	5.28%	18.48
3	Free hold Land	593.89	-	593.89	0.00%	
4	Leasehold Land	328.93	-	328.93	3.34%	
5	PLCC	78.75	-	78.75	6.33%	
6	Furniture / Fixture	-	-	-	6.33%	
7	Civil Works & Building	925.28	-	925.28	3.34%	
8	Office Equipments	22.00	-	22.00	6.33%	
	Total	55,598.90	-	55,598.90	1.24%	687.73
	Weighted Average Rate of Depreciation (%)					1.24%

Note:

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.
2. For Existing Project Depreciation Rate shall be as per Appendix-I while for New Project the rate shall be as per Appendix-II.



PART-III
FORM- 10A

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)

Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1	Opening Capital Cost	54,385	55,249	55,399	55,599	55,599
2	Closing Capital Cost	55,249	55,399	55,599	55,599	55,599
3	Average Capital Cost	54,817	55,324	55,499	55,599	55,599
4	Freehold land	594	594	594	594	594
5	Rate of depreciation	5.22%	5.19%	1.22%	1.24%	1.24%
6	Depreciable value	49,190	49,325	49,505	49,505	49,505
7	Balance useful life at the beginning of the period					
8	Remaining depreciable value	19,793	17,088	14,401	13,723	13,035
9	Depreciation (for the period)	2,840	2,866	678	688	688
10	Depreciation (annualised)	2,840	2,866	678	688	688
11	Cumulative depreciation at the end of the period	32,237	35,103	35,782	36,469	37,157
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	32,237	35,103	35,782	36,469	37,157



PART-III
FORM- 11

Calculation of Interest on Working Capital

Name of the transmission Asset:

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

(Amount in Rs. Lakh)						
Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
I	No. of Days in the year	365	365	365	366	365
II	No. of days for which tariff claimed	365	365	365	366	365
1	O & M Expenses - one month	97	103	108	114	120
2	Maintenance Spares 15% of O&M Expenses	175	185	194	205	216
3	Receivables equivalent to 45 days of AFC	1,017	991	699	698	699
4	Total Working Capital	1,290	1,278	1,002	1,017	1,035
5	Reference rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	11.90%	11.90%	11.90%	11.90%	11.90%
6	Interest on Working Capital	153.50	152.13	119.23	121.04	123.19


(Petitioner)

Summary of issue involved in the petition

1	Name of the Petitioner	Adani Transmission (India) Limited	
2	Petition Category	Transmission	
3	Tariff Period	2024-29	
4	Name of the Project	400 kV D/c Mundra - Dehgam Transmission Line with Associated System	
5	Investment Approval date		
6	SCOD of the Project		
7	Actual COD of the project		
8	Whether entire scope is covered in the present petition.	Yes	
9	No. of Assets covered in instant petition	1	
10	No. of Assets having time over run	Nil	
11	Estimated Project Cost as per IA		
12	Is there any REC? if so, provide the date	No	
13	Revised Estimated Project Cost (if any)	Nil	
14	Completion cost for all the assets covered in the instant petition		
15	No. of Assets covered in instant petition and having cost overrun	Nil	
16	Prayer in brief	Approval of Tariff for Mundra -Mohindergarh,Mohindergarh-Bhiwani, Mohindergarh-Dhanonda transmission line	
17	Key details and any Specific issue involved		
18	Respondents		
	Name of Respondents		
	PGCIL	WRPC	NLDC
	Daman and Diu Electricity Department	NRLDC	NDMC
	Goa State Electricity Board	BRPL	UPCL
	Heavy water Projects, Department of Atomic Energy	JPL	CEA
	Electricity Department UT Chandigarh	TPL	WRPC
	Kanpur Electricity Supply Company Limited	PTC india	PDD
	Haryana Power Purchase Centre	HVPNL	HPSEB
	Rajasthan Power Procurement Centre	GUVNL	NRPC
	Jodhpur Vidyut Vitran Nigam Limited	MSEDCL	RRVPNL
	Jaipur Vidyut Vitran Nigam Limited	MPPMCL	GETCO
	Ajmer Vidyut Vitran Nigam Limited	MPAKVNL	PSPCL
	Delhi Transco Limited	BYPL	TPDDL
	North Central Railway	CSPDCL	UPPCL



PART-III
FORM A**Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.**

Name of the Petitioner

Adani Transmission (India) Limited

Tariff Period 2024-29

2024-29

Name of the Transmission Project

400 kV D/c Mundra - Dehgam Transmission Line with Associated System

COD of the Project (if entire scope of project is completed)

A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition

Sr. No.	Asset No.	COD	Cut off date	Summary of Actual / Projected Capital Cost						Capital Cost as on 31.03.2029
				As on 31.03.2024	2024-25	2025-26	2026-27	2027-28	2028-29	
1	Asset II	10/1/2013	3/31/2016	54,384.90	864.00	150.00	200.00	-	-	55,598.90
Total Capital Cost Claimed										55,598.90

B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.

S. No.	Asset No.	2024-25	2025-26	2026-27	2027-28	2028-29
1	Asset II	8,251.34	8,037.62	5,672.71	5,678.64	5,665.67
Total AFC for all the Assets		8,251.34	8,037.62	5,672.71	5,678.64	5,665.67



Appendix-I

PART-III

**TARIFF FILING FORMS (TRANSMISSION &
COMMUNICATION SYSTEM)**

**FOR DETERMINATION OF TARIFF
FY 2024-25 to FY 2028-29**



INDEX

PART-III

Checklist of Forms and other information/ documents for tariff filing for Transmission

System & Communication System

Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
FORM- 1	Summary of Tariff	Y
FORM- 1A	Summary of Asset level cost	Y
FORM-2	Details of Transmission Lines and Substation and Communication System covered in the project scope and O&M for instant asset	Y
FORM-3	Normative parameters considered for tariff computations	Y
FORM-4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	Y
FORM- 4A	Statement of Capital cost	Y
FORM- 4B	Statement of Capital Works in Progress	NA
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	NA
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	Y
FORM-5A	Break-up of Construction/Supply/Service packages	Y
FORM-5B	Details of all the assets covered in the project	Y
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	Y
FORM- 7	Statement of Additional Capitalisation after COD	Y
FORM- 7A	Financing of Additional Capitalisation	Y
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	NA
FORM- 8	Calculation of Return on Equity	Y
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	Y
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	Y
FORM-9D	Loans in Foreign Currency	NA
FORM-9E	Calculation of Interest on Normative Loan	Y
FORM- 10	Calculation of Depreciation Rate on original project cost	Y
FORM- 10A	Statement of Depreciation	Y
FORM- 10B	Statement of De-capitalisation	NA
FORM- 11	Calculation of Interest on Working Capital	Y
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	NA
FORM- 13	Details of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM- 15	Summary of issue involved in the petition	Y
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	Y
Other Information/ Documents		
Sl. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign	NA
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	NA
7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	NA
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2024-25 and 2025-26 at the time of mid-term true-up in 2026- 27 and for balance period of tariff period 2024-29 at the time of final true-up in 2029-30. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	NA
10	Any other relevant information, (Please specify)	

Note1: Electronic copy of the petition (in word format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.

Summary of Tariff

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line Circuit-I &II at Mohindergarh end

(Amount in Rs. Lakh)

Sr. No.	Particulars	Form No.	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1.1	Depreciation	Form 10A	270	297	323	323	323
1.2	Interest on Loan	Form 9E	387	396	401	359	316
1.3	Return on Equity ¹	Form 8	289	317	345	345	345
1.4	Interest on Working Capital	Form 11	22	23	24	24	24
1.5	O & M Expenses	Form 2	174	183	193	203	214
	Total AFC		1,142	1,216	1,287	1,254	1,222

Note: This Form is a summary form and the Data to this from should flow from other base forms.



PART-III
FORM- 1A

Summary of Asset Level Cost

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line Circuit-I &II at Mohindergarh end

(Amount in Rs. Lakh)

A) Summary of Capital Cost, Means of Finance of the Asset

Particulars	Summary of Actual / Projected Capital Cost						As on 31.03.2029
	As on 01.04.2024	2024-25	2025-26	2026-27	2027-28	2028-29	
Transmission Line	-	-	-	-	-	-	-
Substation equipments	5,120.85	-	1,000.00	-	-	-	6,120.85
Free hold Land	-	-	-	-	-	-	-
Leasehold Land	-	-	-	-	-	-	-
PLCC	-	-	-	-	-	-	-
Furniture / Fixture	-	-	-	-	-	-	-
Building & Civil Works	-	-	-	-	-	-	-
Office Equipments	-	-	-	-	-	-	-
Total	5,120.85	-	1,000.00	-	-	-	6,120.85

Note: This form is a summary form and the data to this form should flow from other base forms.



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

1) Transmission lines

Sr. No.	Name of line	Type of line AC/HVDC	S/C or D/C	No. of Sub-Conductors	Voltage level kV	Line Bays	Line Reactor (Including Switchable)	Line Length km	Date of Commercial operation	Covered in the present petition	
										Yes/No	If No, Petition No.
1											
2											

Summary:

Years covered in the	2018-19	2019-20	2020-21	2021-22	2022-23
Normative rate of O&M as per Regulation - Double Circuit (Twin Conductor) (Rupees in Lakh)	0.86	0.91	0.95	1.00	1.06
Length in km	-	-	-	-	-
O&M Claimed (Rupees in Lakh)	-	-	-	-	-

2) Substations

Sr. No.	Name of Sub-station	Type of Substation Conventional (Greenfield/Brownfield) /GIS/HVDC (terminal/HVDC Back to Back)	Voltage level kV	No. of transformers / Reactors/ SVC etc. (with capacity)	No. of Bays		MVA Capacity	Date of Commercial Operation	Covered in the present Petition	
					400 kV	400 kV			Yes/No	If No, petition No.
1	Mohindergarh Switchyard	AC	400kV	12 ohm Series Line reactors in mohindergarh-dhanonda 400kV D/C Line (Ckt-I) at Mohindergarh end	0	324	30-Mar-22	Y	-	-
2	Mohindergarh Switchyard	AC	400kV	12 ohm Series Line reactors in mohindergarh-dhanonda 400kV D/C Line (Ckt-II) at Mohindergarh end	0	324	30-Mar-22	Y	-	-

Summary:

O&M Expenses for substations covered in the instant petition	2018-19	2019-20	2020-21	2021-22	2022-23
Normative rate of O&M as per Regulation (Rupees in Lakh)	9.53	31.08	32.71	34.43	36.23
No. of Bays	-	-	-	-	-
O&M Claimed (Rupees in Lakh)	-	-	-	-	-
Normative rate of O&M as per Regulation (Rupees in Lakh)	20.67	21.75	22.90	24.10	25.36
No. of Bays	-	-	-	-	-
O&M Claimed (Rupees in Lakh)	-	-	-	-	-
Normative rate of O&M as per Regulation (Rupees in Lakh)	0.26	0.28	0.29	0.31	0.32
MVA Capacity	648	648	648	648	648
O&M Claimed (Rupees in Lakh)	170	179	188	198	209

Note: 1. Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bays, line bays, reactor bays shall be considered separately for purpose of O&M expenses.

2. The MVA Capacity shall exclude the capacity of reactor, PSE, Stat Con

3. O&M expenses for Transmission Licensees whose transmission assets are located solely in NE Region (including Sikkim), States of Uttarakhand, Himachal Pradesh, the Union Territories of Jammu and



Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset.

Name of the transmission Asset: 12-ohm Series Line Reactors In 400 Kv D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

3) Communication System:

S. No.	Name of Communication System	Type of Communication System-Communication System under	Length of OPGW links	No. of RTU	No. of PMU	Date of Commencement	Capital Cost upto Cutoff	Control in the present Petition
								Yes/No
								IT No, Petition No.

Summary:

O&M Expenses for the Communication System covered in the instant petition	2014-15	2015-16	2016-17	2017-18	2018-19
The original project cost / Asset related to the communication system		2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost	2.0% of the original project cost
O&M expenses as per regulations (2% of Original Project Cost)	2.0% of the original project cost	-	-	-	-
Estimated O&M Expense (Rupees in Lakh)*	-	-	0.00	-	-

Note : 1. The O&M expenses as per regulation shall be worked on based on estimated project cost.

2. Expenses in case of U-NMS shall be allowed on actual basis after due prudence check.

*The actual O&M expenses to be provided at the time of true up.

4) Summary of O&M Expenses claim:

Sl. No.	Particulars	2014-15	2015-16	2016-17	2017-18	2018-19
(Rupees in Lakh)						
A) Normative O&M						
1	Transmission Line	-	-	-	-	-
2	Substation	169.78	178.85	187.92	197.64	208.66
3	Communication system	-	-	-	-	-
	Total Normative O&M	169.78	178.85	187.92	197.64	208.66
B) O&M Claimed under Regulation 36 (3)(d)						
	Security Expenses	-	-	-	-	-
	Actual Capital Spare consumed ¹	-	-	-	-	-
	Insurance Premium Paid ²	4.61	4.61	5.51	5.51	5.51
	Total Normative O&M	4.61	4.61	5.51	5.51	5.51
	Total O&M Expenses claimed	174.38	183.46	193.43	203.15	214.16

Note: The security expenses and Capital Spares are to be submitted on estimated basis for the purpose of O&M expenses. In case of additional security deployed, the petitioner shall indicate the same. The actual security and Capital Spares expenses to be provided at the time of true up

1. List of Capital Spares to be provided at the time of true up. Further, no Capital Spares individually costing upto Rs. 10 lakh shall be claimed.

2. At the time of determination of tariff Insurance Premium shall be estimated which shall be subject to true up on the basis of actuals.



PART-III
FORM-3Normative Parameters considered for tariff calculations

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line
Circuit-I & II at Mohindergarh end

Particulars	Unit	Year Ending March				
		2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
Base Rate of Return on Equity	%	15.50%	15.50%	15.50%	15.50%	15.50%
Base Rate of Return on Equity on Additional Capitalization after Cut-off Date ¹	%					
Tax Rate	%	17.472%	17.472%	17.472%	17.472%	17.472%
Effective Tax Rate ²	%					
Target Availability - HVDC System	%	95%	95%	95%	95%	95%
Target Availability - AC System	%	98%	98%	98%	98%	98%
Normative O&M per km	Rs. Lakh	As shown in Form 2				
Normative O&M per bay	Rs. Lakh					
Normative O&M per MVA/MVar	Rs. Lakh					
Spares for WC as % of O&M	%	15%	15%	15%	15%	15%
Receivables in Days for WC	Days	45	45	45	45	45
Reference Rate as on first day of financial year ³	%	11.90%	11.90%	11.90%	11.90%	11.90%

1. The additional capitalization to be equivalent to one year MCLR+350 bps subject to a ceiling of 14.00% in accordance with first Proviso to Regulation 30(3).
2. To be supported by necessary documents and calculations. Effective tax rate is to be computed in accordance with Regulation 31.
3. For Tariff Petition, it should be 1.4.2024, while for True-up Petition, it should be 1st April of the respective financial years.



Statement of Additional Capitalisation after COD

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dharmola line Circuit-1 & II at Mohindergarh end
COD: 30-Mar-22

(Amount in Rs. Lakh)

FY 2024-25				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2025-26				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	1,000.00	-	-	1,000.00
PLCC	-	-	-	-
Total	1,000.00	-	-	1,000.00

FY 2026-27				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2027-28				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

FY 2028-29				
Particulars	Addition into Gross Block as per Books of Account during the year	Less: Deductions during the year towards	Add: Discharge of earlier admitted liability	ACE on cash basis for tariff purpose
1	2	3		
Freehold Land	-	-	-	-
Leasehold Land	-	-	-	-
Building & Civil Works	-	-	-	-
Furniture & Fixtures	-	-	-	-
Office Equipments	-	-	-	-
Transmission Line	-	-	-	-
Sub-Station	-	-	-	-
PLCC	-	-	-	-
Total	-	-	-	-

B) Regulation wise ACE claim on Cash basis

Regulation No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
Total Under Regulation 24						
Reg. 25	ACE within the original scope and after the cut-off date					
25 (1)(a)	Liabilities to meet award of arbitration etc.					
25 (1)(b)	Change in law or compliance of any existing law					
25 (1)(d)	Liabilities for works executed prior to the cut-off date					
25 (1)(e)	Force Majeure Events					
25 (1)(f)	Liabilities for works admitted by the commission after the cut-off date					
Total Under Regulation 25						
Reg. 26	ACE within the original scope:					
26 (1)(a)	Liabilities to meet award of arbitration etc.					
26 (1)(b)	Change in law or compliance of any existing law					
26 (1)(c)	Force Majeure Events					
26 (1)(d)	Need for higher security and safety of the plant...					
26 (1)(f)	Expenditure necessary for efficient operation including works required towards projects acquired through NCLT process		1,000.00			
Total Under Regulation 26						
Total ACE claimed for tariff						
Total Admitted ACE during Final tariff						

Note:

- In case the true up, provide the ACE allowed in final tariff and enclose the copy of the tariff order(s).
- Year wise details of the Work/Equipment proposed to be added after COD upto Cut-off Date beyond Cut-off Date has to be provided along with justification.
- In case of de-capitalisation of assets details to be furnished in Form 10B.
- No ACE towards assets individually costing below Rs. 20 lakh shall be claimed by the Petitioner.
- The capital cost as per books of accounts and liability should be supported by Auditor Certificate.
- Claim to be substantiated with technical justification and cost benefit analysis.



Financing of Additional Capitalisation

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line Circuit-I &II at Mohindergarh end

(Amount in Rs. Lakh)

Financial Year (starting from COD)	Actual/Projected					Admitted				
	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8	9	10	11
Amount capitalised in Work/Equipment	-	1,000.00	-	-	-	-	-	-	-	-
Financing Details										
Loan- 1	-	700.00	-	-	-	-	-	-	-	-
Loan- 2										
Loan-3 and so on										
Total Loan	-	700.00	-	-	-	-	-	-	-	-
Equity	-	300.00	-	-	-	-	-	-	-	-
Internal Resources										
Others	-	-	-	-	-	-	-	-	-	-
Total	-	1,000.00	-	-	-	-	-	-	-	-

Note:

1. Year 1 refers to Financial Year of COD in case of new elements. For existing elements it is from 2024-25 and Year 2, Year 3 etc. are the subsequent financial years respectively.
2. Loan details for meeting the additional capitalisation requirement should be given as per FORM-9 or 9(A) whichever is relevant.



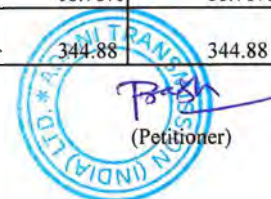
Calculation of Return on Equity at Normal Rate

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line
Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)

S.No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	No. of Days in the year	365	365	365	366	365
	No. of days for which tariff claimed	365	365	365	366	365
1	Opening Normative Equity	1,536.25	1,536.25	1,836.25	1,836.25	1,836.25
2	Less: Adjustment in Equity*	-	-	-	-	-
3	Adjustment during the year	-	-	-	-	-
4	Net Opening Equity (Normal)	1,536.25	1,536.25	1,836.25	1,836.25	1,836.25
5	Add: Increase in Equity due to addition during the year/period	-	300.00	-	-	-
6	Less: Decrease due to de-capitalisation during the year/period.	-	-	-	-	-
7	Add: Increase due to discharges during the year/period	-	-	-	-	-
8	Closing Normative Equity	1,536.25	1,836.25	1,836.25	1,836.25	1,836.25
9	Average Normative Equity	1,536.25	1,686.25	1,836.25	1,836.25	1,836.25
11	Rate of Return on Equity (Base Rate)	15.50%	15.50%	15.50%	15.50%	15.50%
12	Reduced rate of 1% decided by commission under Regulation 30 (2) (if any)					
13	Effective tax rate / MAT rate for the respective years	17.47%	17.47%	17.47%	17.47%	17.47%
14	Rate of Return on Equity (Pre Tax)	18.78%	18.78%	18.78%	18.78%	18.78%
15	Return on Equity on project cost till Cutoff date (Pre Tax)	288.53	316.70	344.88	344.88	344.88



(Petitioner)

Note: 1 Adjustment of equity as per Proviso to Regulation 18(3) of 2024 Tariff Regulations.
2. In respect to Equity infusion the Transmission Licensee is required to substantiate with supporting documents such as board resolutions, balance sheet/ reconciliation statement with balance sheet.

(Petitioner)

PART-III
FORM- 9C

Calculation of Weighted Average Rate of Interest on Actual Loans I

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line
Circuit-I & II at Mohindergarh end

(Amount in Rs. Crs)

Sr. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	1	3	4	5	6	7
1	Inter-Company Deposit					
	Net loan - Opening	407.25	382.25	357.25	332.25	307.25
	Add: Drawal(s) during the Year	-	-	-	-	-
	Less: Repayment (s) of Loans during the year	25.00	25.00	25.00	25.00	25.00
	Net loan - Closing	382.25	357.25	332.25	307.25	282.25
	Average Net Loan	394.75	369.75	344.75	319.75	294.75
	Rate of Interest on Loan on derived basis based on interest paid divided by Average of Opening and Closing Balance of Loan	13.25%	13.25%	13.25%	13.25%	13.25%
	Interest on loan	52.30	48.99	45.68	42.37	39.05
3	Total Loan					
	Net loan - Opening	407.25	382.25	357.25	332.25	307.25
	Add: Drawal(s) during the Year	-	-	-	-	-
	Less: Repayment (s) of Loans during the year	25.00	25.00	25.00	25.00	25.00
	Net loan - Closing	382.25	357.25	332.25	307.25	282.25
	Average Net Loan	394.75	369.75	344.75	319.75	294.75
	Interest on loan	52.30	48.99	45.68	42.37	39.05
	Weighted average Rate of interest on Loans	13.25%	13.25%	13.25%	13.25%	13.25%

- Note: 1. In case of Foreign Loans, the calculations in Indian Rupees is to be furnished as per Form 9(D). However, the calculation in original currency is also to be furnished separately in the same form.
2. In case of already commissioned combined assets the details may be provided asset wise as well as combined.
3. Details of Financing Charges.



PART-III
FORM-9ECalculation of Interest on Normative Loan

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)

S.No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	No. of Days in the year	365	365	365	366	365
	No. of days for which tariff claimed	365	365	365	366	365
1	Gross Normative loan - Opening	3,584.59	3,584.59	4,284.59	4,284.59	4,284.59
2	Cumulative repayment of Normative Loan upto previous year	526	796	1,093	1,416	1,739
3	Net Normative loan - Opening	3,058.68	2,788.30	3,191.52	2,868.34	2,545.16
4	Addition in Normative loan towards the ACE	-	700.00	-	-	-
5	Adjustment of Normative Gross loan pertaining to the decapitalised asset.	-	-	-	-	-
6	Normative Repayments of Normative Loan during the year	270.38	296.78	323.18	323.18	323.18
7	Adjustment of Cum. repayment pertaining to the decapitalised asset.	-	-	-	-	-
8	Net Normative loan - Closing	2,788.30	3,191.52	2,868.34	2,545.16	2,221.98
9	Average Normative Loan	2,923.49	2,989.91	3,029.93	2,706.75	2,383.57
10	Weighted average Rate of Interest of actual Loans	13.25%	13.25%	13.25%	13.25%	13.25%
11	Interest on Normative loan	387.36	396.16	401.47	358.64	315.82



PART-III
FORM- 10Calculation of Depreciation Rate on original project cost

Name of the transmission Asset:

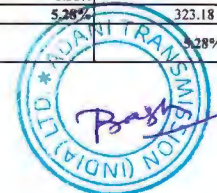
12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda
line Circuit-I & II at Mohindergarh end

(Amount in Rs. Lakh)

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2024	Additional Capitalization During FY 2024-25	Gross Block as on 31.03.2025	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2024-25
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	5.28%	-
2	Substation equipments	5,120.85	-	5,120.85	5.28%	270.38
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	5,120.85	-	5,120.85	5.28%	270.38
	Weighted Average Rate of Depreciation (%)					5.28%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2025	Additional Capitalization During FY 2025-26	Gross Block as on 31.03.2026	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2025-26
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	5.28%	-
2	Substation equipments	5,120.85	1,000.00	6,120.85	5.28%	296.78
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	5,120.85	1,000.00	6,120.85	5.28%	296.78
	Weighted Average Rate of Depreciation (%)					5.80%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2026	Additional Capitalization During FY 2026-27	Gross Block as on 31.03.2027	Depreciation Rates as per CERC's Depreciation Rate Schedule ³	Depreciation Amount for FY 2026-27
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	5.28%	-
2	Substation equipments	6,120.85	-	6,120.85	5.28%	323.18
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	6,120.85	-	6,120.85	5.28%	323.18
	Weighted Average Rate of Depreciation (%)					5.28%



PART-III
FORM- 10Calculation of Depreciation Rate on original project cost

Name of the transmission Asset: 12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2027	Additional Capitalization During FY 2027-28	Gross Block as on 31.03.2028	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2027-28
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	5.28%	-
2	Substation equipments	6,120.85	-	6,120.85	5.28%	323.18
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	6,120.85	-	6,120.85	5.28%	323.18
	Weighted Average Rate of Depreciation (%)					5.28%

Sl. no.	Name of the Assets ¹	Gross Block as on 31.03.2028	Additional Capitalization During FY 2028-29	Gross Block as on 31.03.2029	Depreciation Rates as per CERC's Depreciation Rate Schedule ²	Depreciation Amount for FY 2028-29
	1	2	3	4	5	6= average(2,4) X 5
1	Transmission Line	-	-	-	5.28%	-
2	Substation equipments	6,120.85	-	6,120.85	5.28%	323.18
3	Free hold Land	-	-	-	0.00%	-
4	Leasehold Land	-	-	-	3.34%	-
5	PLCC	-	-	-	6.33%	-
6	Furniture / Fixture	-	-	-	6.33%	-
7	Civil Works & Building	-	-	-	3.34%	-
8	Office Equipments	-	-	-	6.33%	-
	Total	6,120.85	-	6,120.85	5.28%	323.18
	Weighted Average Rate of Depreciation (%)					5.28%

Note:

1. Name of the Assets should conform to the description of the assets mentioned in Depreciation Schedule appended to the Notification.
2. For Existing Project Depreciation Rate shall be as per Appendix-I while for New Project the rate shall be as per Appendix-II.



PART-III
FORM- 10A

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line Circuit-I &II at Mohindergarh end

(Amount in Rs. Lakh)

Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
(1)	(2)	(4)	(5)	(6)	(7)	(8)
1	Opening Capital Cost	5,120.85	5,120.85	6,120.85	6,120.85	6,120.85
2	Closing Capital Cost	5,120.85	6,120.85	6,120.85	6,120.85	6,120.85
3	Average Capital Cost	5,120.85	5,620.85	6,120.85	6,120.85	6,120.85
4	Freehold land	-	-	-	-	-
5	Rate of depreciation	5.28%	5.80%	5.28%	5.28%	5.28%
6	Depreciable value	4,608.77	5,508.77	5,508.77	5,508.77	5,508.77
7	Balance useful life at the beginning of the period					
8	Remaining depreciable value	4,082.86	4,712.47	4,415.69	4,092.51	3,769.33
9	Depreciation (for the period)	270.38	296.78	323.18	323.18	323.18
10	Depreciation (annualised)	270.38	296.78	323.18	323.18	323.18
11	Cumulative depreciation at the end of the period	796.29	1,093.07	1,416.25	1,739.43	2,062.61
12	Less: Cumulative depreciation adjustment on account of de-capitalisation	-	-	-	-	-
13	Net Cumulative depreciation at the end of the period	796.29	1,093.07	1,416.25	1,739.43	2,062.61



PART-III
FORM- 11

Calculation of Interest on Working Capital

Name of the transmission Asset:

12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line Circuit-I &II at Mohindergarh end

(Amount in Rs. Lakh)						
Sl. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
I	No. of Days in the year	365	365	365	366	365
II	No. of days for which tariff claimed	365	365	365	366	365
1	O & M Expenses - one month	14.53	15.29	16.12	16.93	17.85
2	Maintenance Spares 15% of O&M Expenses	26.16	27.52	29.01	30.47	32.12
3	Receivables equivalent to 45 days of AFC	140.83	149.9227442	158.6968558	154.160212	150.6475218
4	Total Working Capital	181.52	192.73	203.83	201.56	200.62
5	Reference rate as on 01.04.2024 or as on 01st April of the COD year, whichever is later.	11.90%	11.90%	11.90%	11.90%	11.90%
6	Interest on Working Capital	21.60	22.93	24.26	23.99	23.87


(Petitioner)

Summary of issue involved in the petition

1	Name of the Petitioner	Adani Transmission (India) Limited	
2	Petition Category	Transmission	
3	Tariff Period	2024-29	
4	Name of the Project	12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line Circuit-I & II at Mohindergarh end	
5	Investment Approval date		
6	SCOD of the Project		
7	Actual COD of the project	30-Mar-22	
8	Whether entire scope is covered in the present petition.	Yes	
9	No. of Assets covered in instant petition	1	
10	No. of Assets having time over run	Nil	
11	Estimated Project Cost as per IA		
12	Is there any REC? if so, provide the date	No	
13	Revised Estimated Project Cost (if any)	Nil	
14	Completion cost for all the assets covered in the instant petition		
15	No. of Assets covered in instant petition and having cost overrun	Nil	
16	Prayer in brief	Approval of Tariff for 12 ohm Series Line Reactors	
17	Key details and any Specific issue involved		
18	Respondents		
	Name of Respondents		
	PGCIL	WRPC	NLDC
	Daman and Diu Electricity Department	NRLDC	NDMC
	Goa State Electricity Board	BRPL	UPCL
	Heavy water Projects, Department of Atomic Energy	JPL	CEA
	Electricity Department UT Chandigarh	TPL	WRPC
	Kanpur Electricity Supply Company Limited	PTC india	PDD
	Haryana Power Purchase Centre	HVPNL	HPSEB
	Rajasthan Power Procurement Centre	GUVNL	NRPC
	Jodhpur Vidyut Vitran Nigam Limited	MSEDCL	RRVNL
	Jaipur Vidyut Vitran Nigam Limited	MPPMCL	GETCO
	Ajmer Vidyut Vitran Nigam Limited	MPAKVNL	PSPCL
	Delhi Transco Limited	BYPL	TPDDL
	North Central Railway	CSPDCL	UPPCL



PART-III
FORM A**Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.**

Name of the Petitioner

Adani Transmission (India) Limited

Tariff Period 2024-29

2024-29

Name of the Transmission Project

12-ohm Series Line Reactors in 400 Kv D/C Mohindergarh Dhanonda line
Circuit-I & II at Mohindergarh end

COD of the Project (if entire scope of project is completed)

30-Mar-22

A) Summary of Capital Cost as on COD and Additional Capital Expenditure claimed for all the assets Covered in the instant petition.

Sr. No.	Asset No.	COD	Cut off date	Summary of Actual / Projected Capital Cost						Capital Cost as on 31.03.2029
				As on 31.03.2024	2024-25	2025-26	2026-27	2027-28	2028-29	
1	Asset 1	3/30/2022	3/31/2028	5,120.85	-	1,000.00	-	-	-	6,120.85
Total Capital Cost Claimed										6,120.85

B) Summary of Annual Fixed Cost (AFC) claimed for all the assets covered in the instant petition.

S. No.	Asset No.	2024-25	2025-26	2026-27	2027-28	2028-29
1	Asset 1	1,142.26	1,216.04	1,287.21	1,253.84	1,221.92
Total AFC for all the Assets		1,142.26	1,216.04	1,287.21	1,253.84	1,221.92

