

Scope of work for the transmission line tower strengthening works of 765 kV Tiroda – Koradi CKT-1 & Akola – Aurangabad CKT-1 MEGPTCL Lines for Phase-1

1. Scope of work includes the strengthening of 765 kV S/C A Type Delta configuration towers of 765 kV Tiroda – Koradi CKT-1 and Akola – Aurangabad CKT-1 MEGPTCL Lines (Refer Annexure-1 for line details) as per approved drawings and BOM, erection of various types of tower parts/ members, hole drilling at tower members, bolt& nuts, pack washers, spring washers, primer, 90% Rich Zinc Paint application etc.
2. Strengthening work must be completed in all aspects including tightening & punching of the full tower (after / before completing of Non shutdown / Shutdown work)
3. The contractor will ensure proper handling of material to avoid damaging/theft/missing of the material and other property at site. In the event of damage, recovery will be made as decided by the Engineer I/C.
4. Contractor shall be responsible for thefts, damages / deteriorations of materials including owner supplied free issue materials” if any, in case of thefts/damages deteriorations of materials, contractor shall replenish the materials without any additional cost to owner irrespective of claim settlement from contractor side to ensure that-the project schedule is not affected. The contractor shall name the owner as co-insured for the EAR policy.
5. All the items which are incidental and necessary for the successful completion of the scope of work shall be deemed to be included through the same that may not have been specifically mentioned in the schedule.
6. Insurance such as third-party insurance, workman compensation insurance or any other insurance persistence to this work shall be arranged by the contractor at their own cost and expense (As Per HR Policy).
7. The shutdown of the said lines (As per Annexure-1) shall be arranged by the Adani (Owner) daily as per outages plan. However, there might be delay in the consecutive shutdown subjective to the real time grid condition/ constraints.
8. The agency shall support the owner for LT line shutdown, if any required for tower strengthening work.
9. The agency to comply with all the HSE requirements of Adani.
10. The agency to comply with all the Kronos related compliance prior to site mobilization.
11. Each gang should have minimum 12 (Twelve) Nos. of experienced highly skilled fitters and 03 (Three) Nos. of semi-skilled manpower. However, if required, more nos. of gangs with T&P and PPE's needs to be deployed at site as per the quantity of work and to complete it in stipulated time.

12. Completion timeline is mentioned in the Annexure-1 against each transmission line. Contractor to estimate and mobilize the total gang requirement according keeping in view of the completion timelines.
13. The contractor shall return to the employer all the excess OSM material supplied by Adani which is not used in the said work or else the same to be recovered in the final settlement.
14. All norms and compliances to be followed by contractors as applicable as per state regulations.
15. The agency shall comply with all labor laws applicable to workmen engaged by them for conducting work and Adani shall bear no liability whatsoever towards any violations by the agency in this regard.
16. The executing agency will have to arrange all the personal protective equipment's like safety shoes, safety helmet, safety belt, fall arrestor, Full body Double Lanyard harness, Detachable type rope grab, retractable wire rope fall arrestor blocks, horizontal anchorage line fall arrestors, discharge rod, fully equipped first aid box, Safety net, emergency lights, emergency vehicles support etc. to carry out the work in complete safe environment.
17. The agency needs to provide sufficient tools and tackles as required for the said work. Any additional T&P, if required, to execute the work shall also be arranged by the agency at no extra cost to Adani. However, the following points need to be considered during execution of the work.
 - a. Gangs will not be allowed to use tractor for lifting material on tower.
 - b. For Lifting materials only winch machine is to be used by each gang of contractor.
18. The contractor shall be responsible for the performance of the work in accordance with all the specifications and safety practices. In the event of work falling behind schedule, the contractor will have taken all necessary steps including an increase in its gang or by working in extended hours, to complete the work within the stipulated time.
19. The idling charges will be paid to the contractor by Adani (As per TC Terms and Conditions) only when unresolved ROW/ Delay in Shutdown availing. However, three days' idling shall be in scope of contractor in such cases. In case of any Row issue at any location mobilization of gang with material to alternate location will be in contractor's scope (up to what kms).
20. All the drawings, BOM & Shop sketches are attached along with this scope of work.
21. The contractor shall take all safety precaution and fulfil all statutory requirements of employees regarding their qualification, special skill of work at height (Fitness certificate for work at Height), license and insurance of staff deputed for the job. (segregate safety instructions in one place)

22. Contractor shall provide all required assistance to owner for obtaining necessary permit/clearance for work.
23. Any HSE policy violation will lead to imposing Penalty as per HSE Norms, same shall be deducted in final settlement.
24. All expenses pertaining to Deployed Manpower must be borne by the contractor i.e., Staying, Fooding, Travelling, material movement, Medical and others.
25. The execution plan includes both stages of Non shut down erection and Shutdown (Outage Based) based erection work, the same shall be conducted as per individual work plan and SOP.

Specific Agreed Terms

- 1. Free issue material: Fabricated tower material along with nuts and bolts shall be provided as free issue material at Koradi and Akola Substation. Loading, unloading and transportation of material from Koradi and Akola substation to the working site shall be in the scope of contractor. Tower members shall be pre-assembled/ sorting and bundling by contractor should be at contractor's store / premises for speedy work.**
- 2. During the contract period, if the labor cost or any of the material price increases, then the responsibility lies with the Contractor to conduct the job at the awarded value without having any extra financial implication to Employer.**
- 3. All Material (Except free issue material if any), Manpower, Tools & Tackles, Machineries, Equipment's, consumables, Safety gadgets, PPE's etc. required for execution of job shall be in Contractor's scope.**
- 4. Lodging, boarding, local conveyance & transportation of material and workmen shall be in Contractor's Scope.**
- 5. Contractor shall have to inform Employer in advance before start of work to issue PTW (Permit to Work).**
- 7. After completion of work Housekeeping of work site is prime responsibility of Contractor.**
- 8. The actual work area and nature of work shall be as decided by Employer's EIC.**
- 9. Contractor shall comply with Employer's Field Quality Plan (FQP) requirement.**
- 10. Contractor shall comply with Employer's site safety plan requirement.**
- 11. Contractor shall provide Project Site Safety Plan before starting of the work to Employer for its approval.**

12. If there is any delay in the outage availed by Employer after team reaching at site, then idling charges shall be paid as per terms decided by TC Team.

13. The Contractor will perform the Services in a manner that gives appropriate regard to the protection of the natural environment.

14. The Contractor will comply with all Statutory & Regulatory requirements and codes of practices relating to the services being offered as may be relevant.

15. The Contractor will follow all Environmental Operational Controls while conducting the activities within plant/site premises as per the instruction by user dept.

16. All insurance related issues for Contractor's Service Engineer at our site shall be in Contractor scope.

17. Contractor should have PF Registration and shall have to pay EPF to their employees and should take necessary labour license permission from local Govt. authority and informed to local authority

18. In case of Inspection or EPS Maintenance Job orders, Group Insurance Cover, Valid ID Proof etc. must be required for those who are attending the Inspection/ Maintenance Job.

19. Contractor shall take all kinds of applicable insurances required to execute the subject Contract. Contractor should ensure their employees and keep insure till the Completion of this Contract/issuance of taking over Certificate. Copies of such a Policy shall be submitted to Employer time to time.

20. Contractor should have to submit a valid Workmen Compensation Insurance Policy or shall comply with ESIC norms and should have to submit a copy of ESIC registration certificate within 7 days from date of issuance of Order and prior to Commencement of Work. Contractor should not deploy/ employ Minor persons (below 18 years) for attending this Work Order Jobs as per the Labor Act.

21. Contractor workers shall not be allowed to carry mobile phones inside Employer plant premises/ work sites. Only Contractors Supervisors/ Engineers shall be allowed to carry mobile phones inside Employer plant premises/ work sites.

22. The service engineer will work with safety rules and regulations as per the Employer's safety department and no violation is granted in safety related issues. Penalty shall be imposed as per EHS Penalty Policy in case of violation.

23. The Contractor shall be responsible for Medical and Physical fitness of their Service Engineer and Working labours.

24. Safety, Health and Security of the Service Engineer within the Construction site/ Premises are the sole responsibility of the Contractor only. In case of any accident, the entire Medical and other expenses, if any, shall be borne by the Contractor.

25. Contractor shall make themselves and their Service Engineer aware of nature of job, operating conditions, safety requirement and suitability of their workmen to carry out such jobs safely.

27. Contractor's Service Engineer shall undergo safety orientation at Employers premises before commencement of work and shall keep on doing the orientation as per Employers safety policy.

28. NO. OF GANGS TO BE DEPLOYED IN TOWER STRENGTHENING WORKS AS MENTIONED BELOW -

SN	Name of line	No. of towers	No. of gangs	Location
1	765 kV SC Akola to Aurangabad lines	430	15	Akola to Aurangabad
2	765 kV SC Tiroda- Koradi Tr. Line2	35	2	Koradi
3	765 kV SC Tiroda- Koradi Tr. Line1	42		Koradi

29. The planned tower strengthening work to be completed by 31 March 2027.