

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD.,**

**OFFICE OF THE EXECUTIVE ENGINEER**

± 500KV HVDC TL (O&M) DIVISION,

Plot No. 150, Mhada Colony, Ambad Choufully, Ambad Road, Jalna-431203 ( Maharashtra )

Contact No. 02482- 225513

Email ID- [ee7310@mahatransco.in](mailto:ee7310@mahatransco.in)

EE/ 500 kV/ HVDC TL (O&M)/ DN/ JLN/ Tech/ **No - 258** Date - **- 3 NOV 2023**

**NOTIFICATION FOR BUDGETARY OFFERS (For estimation purpose only)**

**Sub:- Requirement of budgetary offer in sealed envelope for Work of tower or tower leg base Painting and Anticorrosive Painting with Nano technology based acid and alkali nano-modified anti corrosive coating under HVDC TL(O&M) Jalna Division for the year of 2023-24 under HVDC RS (O&M) Circle, Padghe.**

**Sir/Madam,**

The budgetary offer is invited in sealed envelope in hard copies for the work of tower leg base Painting and Anticorrosive Painting with Nano technology based acid and alkali nano-modified anti corrosive coating under HVDC TL(O&M) Jalna Division for the year of 2023-24 under HVDC RS (O&M) Circle, Padghe. The details of work requirement and specifications is as below-

	<b>Feature</b>	<b>Particulars</b>
1	<b>Type of Paint</b>	Nano Modified Acid Resistant
2	<b>Application of Painting</b>	By Brush/Roller
3	<b>Dry Film Thickness (DFT):-</b>	Not less than 150 microns in one coat.
4	<b>No. of coat to be done</b>	Minimum 3
5	<b>Resistive property</b>	Chemical Resistant against fumes & spillages (Acid &Alkali)

- The test report of paint-done at NABL certified test laboratory prior to start of work is must.

**The Anticorrosive paint/ Coating shall consist of the following steps:**

- (i) **Surface Preparation:** The surface should be cleaned only by either mild machines grinding, manually by sand paper or with metal sharpeners and steel wires brushes for cleaning the rusted metal surface. Use rust remover to remove heavy or thick rust and paint stripper to remove old paint if painted previously.
- (ii) Minimum one coat of Acidic nano technology-based Rust Fixator/ Rust Preventive/ Steel Guard Nano coat to freeze the rust permanently.
- (iii) Minimum one coat (not less than 150 micron) of Acid and Alkali Resistant Nano Modified PvdF Epoxy paint.
- (iv) Minimum one coat (not less than 150 micron) of Intermediate Acid and Alkali Resistant Nano Modified PvdF Epoxy paint.
- (v) Minimum one coat (not less than 150 micron) of finished Acid and Alkali Resistant Nano Modified PvdF Epoxy paint.

**SCOPE of Work** should be invariably "Supply and application of nano technology based acid and alkali resistant nano-modified anti corrosive coating on rusted Transmission Line tower's legs / stubs under (*Jurisdiction*) Scope of work shall also include mobilization & demobilization of manpower & material as required from contractor's base camp to execution site, labour, Supervisor, vehicles, lodging & boarding of engaged labor, Tools & Plants, material and any other services required for the execution of subject work.

**Contractor/Bidder shall submit following certificates for the Nano modified acid and alkali resistant coating system:-**

- i) Tafel Extra Polation test certificate for its Nobility.
- ii) Temperature stability test certificate for 250 degree Celsius
- iii) Bond strength with concrete test certificate as per IS: 2770
- iv) ROHS compliance test certificate.
- v) Chemical resistance test as per ASTM D 6943 .

**Accord of approval of Technical Qualifying Requirement (TQH) for painting system for various metallic structures in MSETCL**

- vi) Salt spray test of 4000 hours from NABL approved labs.
- vii) Holiday detector test certificate for 5.5 kVA as per ASTM D5162.
- viii) Tensile strength and Elongation test certificate as per ASTM D 638.

Such offers need to be sent at following address on or before 13.11.2023 from date of issue of notification, on letter head with due company seal and sign of authorized person along with all terms and conditions, taxes etc in hard copy to this office for processing approval.

Sd/-  
**Executive Engineer**  
**500kV HVDC TL O&M Division,**  
**MSETCL Jalna**

**Address-**

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Contact No. for any queries- 9423984546 (Email ID- [ee7310@mahatransco.in](mailto:ee7310@mahatransco.in))