



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD.

**From :-Office of The Executive Engineer,
EHV(O&M) Division, Kalwa
Brahmaputra Building, 2nd floor,
Power House Complex, Post Box No 4, Airoli,
Thane-Belapur Rd., Navi Mumbai- 400708.
Tel : 022- 2760 1919, FAX : 022- 2760 1919
CIN No: U40109MH2005SGC153646
Web Site: www.mahatransco.in
E-mail ID - eekalwa@gmail.com**

Ref No.: EE / EHV/ O&M/ KLW/T- / 001969

Date: - 28 NOV 2023

**RE-ENQUIRY
(Through MSETCL webpage)**

**To,
WHOM SO EVER IT MAY CONCERN**

**Sub.: Enquiry for Anticorrosive cold Galvanizing coating by using Nano technology on Tower
Stub/Legs of 400KV Lines under EHV O&M Division, Kalwa.
..... submission of budgetary offers thereof**

This office has to prepare estimate for Anticorrosive cold Galvanizing coating on Tower Stub/Legs of 400KV Lines under EHV O&M Division, Kalwa.. It is requested to offer your favorable budgetary rate for the subject work as detailed in the enclosed Price estimate.

- 1. DUE DATE:** - The quotations, complete in all respects, duly sealed & super scribed should be submitted to this office on or before due date i.e., Dt. 05.12.2023
- 2. QUOTED RATES:** The quoted rates should include the cost of all skilled & unskilled Labour, and also the requisite consumables, T&P and all incidental charges such as traveling/ transportation, accommodation etc.
- 3. SCOPE of Work:** 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.

4. Technical Specification of work:

Nano-technology based acid and alkali nano-modified anti corrosive coating) :-

	Feature	Particular
1	Type of Paint	Nano Modified Acid Resistant
2	Applicarion of Painting	By Brush/Roller
3	Dry Film Thickness (DFT):-	Not less than 150 micron in one coat.
4	No. of coat to be done	Minimum 3
5	Resistive Property	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.

5. 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.
- VI. Salt Spray test 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.

6. DOCUMENT SUBMISSION: The bidder should submit all the supporting and accompanying documents (i.e., technical specification, drawing etc.) required for execution of work in sealed Envelope to this office.

7. Please note that the said budgetary offer is only for estimate purpose & not considered for any bidding & No work order will be issued based on this Enquiry.

Thanking you,

Yours faithfully,

Encl: Schedule 'A'

-Sd-

Executive Engineer,
EHV (O&M) Dn., Kalwa.

Copy to: 1) The Manager (F&A), EHV (O&M) Dn., Kalwa.

2) Notice board.

**MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.
EHV (O&M) DN. KAWLA**

Schedule A

Sub:- Anticorrosive cold Galvanizing coating by using Nano technology on Tower Stub/Legs of 400KV Lines under EHV O&M Division, Kalwa.

Sr.No.	Description	Unit	Ex Rate	GST	Unit Rate
1	Cleaning & Anticorrosive cold galvanizing coating of 400KV Tower Stub/ Legs by applying one coat of prime coat ZN followed by two coats of grafted Co- Polymer based galvanizing coat with a gap of 25-30 min between each coat with brush application. (Removing of excess soil, mud, stones & other material within periphery around the tower stub and its muffing cleaning of small trees shrubs/bushes around tower legs/stubs. Cleaning of rusted tower legs/stub by scrubbing it. Anti corrosive painting of clean tower legs/ stub including bracing and diagonal members up to 1.5 meter height from Chimney.) 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.	Sq. Ft			

Note:-

Other loading if any

**Executive Engineer,
EHV (O&M) Dn., Kalwa.**