

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD.

From: Executive Engineer, EHV O&M Division Boisar
Office address: Office Of the Executive Engineer, MSETCL, EHV O&M Division Boisar, Khairaphata,
At Vidyanagar, Post Saravali, Tal. & Dist. Palghar.
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Ref. No.: EE/EHV/O&M/DN/BSR/Tech/Budgetary Offers/ **01904** Date: **28 DEC 2023**

Enquiry for Budgetary Offers

To,
WHOM SO EVER IT MAY CONCERN

Sub.: Budgetary Offer for Nano-Technology based acid and alkali resistant nano modified anticorrosive coating on various rusted Gantry and Equipment structures at 220 kV Boisar-II and 132 kV Palghar S/S and various T/F/ICT at 132 kV Boisar-I MIDC and 220 kV Boisar-II S/S under EHV O&M Division Boisar.

This office has to prepare estimate for Nano-Technology based acid and alkali resistant nano modified anticorrosive coating on various rusted Gantry and Equipment structures at 220 kV Boisar-II and 132 kV Palghar S/S and various T/F/ICT at 132 kV Boisar-I MIDC and 220 kV Boisar-II S/S under EHV O&M Division Boisar. 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. 05.01.2024 till 1:00 pm. If budgetary offers received after due date will not be accepted by this office.**
- 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 various rusted Gantry & Equipment structures and various T/F/ICT. 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):**

Sr. No.	Feature	Particular
1	Type of Paint	Nano Modified Acid Resistant
2	Application 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

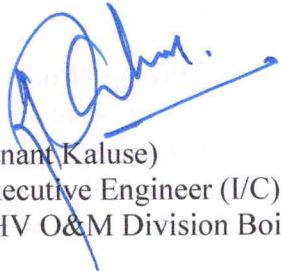
5	Resistive Property	Chemical Resistant against fumes & spillages (Acid & Alkali)
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The test report of paint done at NABL certified test laboratory prior to start of work is must.

The Anticorrosive paint/Coating shall consist of the following steps.

- a) 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.
 - b) Minimum one coat of Acidic nano technology based Rust Fixator/Rust Preventive/Steel Guard Nano coat to freeze the rust permanently.
 - c) Minimum one coat (not less than 150 micron) of Acid and Alkali Resistant Nano Modified PvdF Epoxy paint.
 - d) Minimum one coat (not less than 150 micron) of intermediate Acid and Alkali Resistant Nano Modified PvdF Epoxy paint.
 - e) 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:**
- a) Tafel Extra Polation test certificate for its Nobility.
 - b) Temperature stability test certificate for 250 degree Celsius
 - c) Bond strength with concrete test certificate as per IS: 2770
 - d) ROHS compliance test certificate.
 - e) Chemical resistance test as per ASTM D 6943.
 - f) Salt Spray test 4000 hours from NABL approved labs.
 - g) Holiday detector test certificate for 5.5 KVA as per ASTM D5162.
 - h) 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.**

Encl.: Schedule 'A'


(Anant Kaluse)
Executive Engineer (I/C)
EHV O&M Division Boisar

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.


EHV O&M Division Boisar

Schedule 'A'

Sub: Estimate for Nano-Technology based acid and alkali resistant nano modified anticorrosive coating on various rusted Gantry and Equipment structures at 220 kV Boisar-II and 132 kV Palghar S/S and various T/F/ICT at 132 kV Boisar-I MIDC and 220 kV Boisar-II S/S under EHV O&M Division Boisar.

Sr. No.	Description	Unit	Ex-Works Rate.
1)	Nano-Technology based acid and alkali resistant nano modified anticorrosive coating on various rusted Gantry and Equipment Structure as per MSETCL specifications as directed by site incharge including supply of all labour T&P etc. at 220/132/33 kV Boisar-II S/S	Sq. meter	
2)	Nano-Technology based acid and alkali resistant nano modified anticorrosive coating on various rusted Gantry and Equipment Structure as per MSETCL specifications as directed by site incharge including supply of all labour T&P etc. at 132/33 kV Palghar S/S	Sq. meter	
3)	Nano-Technology based acid and alkali resistant nano modified anticorrosive coating on 200MVA, 220/132 kV ICT along with accessories WITH REQUIRED MATERIAL as per MSETCL specifications as directed by site incharge including supply of all labour T&P etc. complete at 220/132/33 kV Boisar-II S/S.	Job	
4)	Nano-Technology based acid and alkali resistant nano modified anticorrosive coating on 50MVA, 132/33 kV Power Transformer along with accessories WITH REQUIRED MATERIAL as per MSETCL specifications as directed by site incharge including supply of all labour T&P etc. complete at 132/33 kV Boisar-I MIDC S/S.	Job	

- Note:**
- 1) Ex-Works rates should be inclusive of levy & statutory payment (i.e., Labour cess@1%, Freight & Insurance @2% etc.).
 - 2) Applicable Taxes should be quoted separately.
 - 3) The Budgetary offer should be valid for 90 days from due date of opening.
 - 4) Preference shall be given to MSETCL's registered vendors having subject experience.
 - 5) Lowest rates of respective material/services from all budgetary offers will be considered for preparation of estimate, however abnormally high or low rates will not be considered. Please be noted.


(Anant Kaluse)
Executive Engineer (I/C)
EHV O&M Division Boisar

Copy to:

- 1) The Dy. Manager (F&A), EHV O&M Division Boisar.
- 2) Notice Board, Division Office, EHV O&M Division Boisar.