



MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.

Office of The Executive Engineer
400 KV R.S O&M Division, Kalwa
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EE/400KV/RS/O&M/Dn/KLW/Tech/23-24/

000908

Date:-22.12.2023

E-ENQUORY

(Through MSETCL webpage)

To,
WHOM SO EVER IT MAY CONCERN

Sub:- Enquiry for Supply, Installation of Generation III Early Streamer Emission Lighting Arrestor at 400 KV RS Kalwa under 400KV R S O&M Dn Kalwa.
.....submission of budgetary offers thereof.

This office has to prepare estimate for Supply, Installation of Generation III Early Streamer Emission Lighting Arrestor at 400 KV RS Kalwa under 400KV R S O&M Dn Kalwa. It is requested to offer your favorable budgetary offer 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. 30.12.2023.
2. **QUOTED RATES :-** The quoted rate 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. **DOCUMENT SUBMISSION:-** The bidder should submit all the supporting and accompanying documents (i. e. PAN, GST certificate, Shop & Establishment certificate etc.) required for execution of work in sealed Envelope to this office.
4. **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,

Pankaj A. Shelar
Executive Engineer

400KV R.S. (O&M) Dn. Kalwa

Encl: Schedule 'A'.

MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.
400KV RS O&M DN KALWA

Schedule A

Sub Supply, Installation of Generation III Early Streamer Emission Lighting Arrestor at 400 KV RS Kalwa under 400KV R S O&M Dn Kalwa.

Supply Portion

Sl No	Description	Unit	Ex Rate	GST	Unit Rate
1	Supply of Generation III Early Streamer Emission (ESE) Lighting Arrestor having following features and controls : Mounted at a height of 3 mtr above top level with level - I protection. Polarized the tip with 20 to 30 KV with the progress of descending tracer and triggering of an anticipated at tip of the Ascending Tracer, remotely testing facility via radio signals with on board Transmitter using standard frequency and transmitting at every 45 seconds to confirm the correct operation of Lightning Conductors Electronics including polarization of tip. 304 L grade stainless steel outer body and tip, Electronic components are protected in inert resin block. The spark gap is made up of solid stainless steel is designed to carry currents of 180 KA, Powered by 6 Volt maintenance free Battery (inbuilt) charged by 3 indestructible flexible solar cells (fixed on LA bod) charged continuously as per drawing, The faces of each cell are made born Ethel Tetra Fluro Ethylene (ET'FE) polymer material, The ESE air terminal is an intelligent device able to synchronies with downward lightning and adopt to the --- ve and + ve lightning quality (M/s. Duval Messien of France make having Satelit 3 - 60 model or equivalent)	EA			
2	Supply of supporting mast of 3 mtrs. height for Air Terminal	EA			
3	Supply of single core 70 sqr mm flexible copper cable suitable for 1100 V	Mtr			
4	Supply of Test Joint (Test Clamps) mounted in between the Earth Electrode (EC) and Down Conductor (DC) at the height of 2 meter above ground level to be done as per referent IS specifications designed and situated so as the resistance of Earth Electrode can be made.	EA			
5	Supply of Electromechanical Lighting Strike counter having following features:- i) Counts lightning strikes with 6 digit count display ii) Easy to monitor and install iii) No maintenance required iv) It should count flashes up to 100 kA, v) mounted with	EA			

	lighting protection system, vi) It should be IP 65 tested. vii) Easy to monitor & install viii) No maintenance ix) • It should be tested by CPRI				
6	Supply of Maintenance free earthing using 17 mm dia, 2 meter long, 250 micron copper bonded rod & 10 Kg. Terec+ Ground Enhancing Compound with welded clamp				
	Service Portion				
1	Providing HDPE chamber for earth pits complete.	EA			
2	Installation of Generation-III ESE Air Terminal	EA			
3	Erection of supporting mast of 3 mtrs.height for Air Terminal	EA			
4	Installation of single core 70 sqr mm flexible copper cable suitable for 1100 V	Mtr			
5	Installation of Test Joint	EA			
6	Erection of Flash Counter	EA			
7	Erection of Maintenance Free earthing	EA			
8	Remote Teletester for Generation III ESE Protection Lightning Arrestor as per NFC 17 - 102 standards with guarantee for one year having following features and controls : Operating on standard frequency of 433 MHZ in radio frequency band complying with ETS 3000220 and ETS 300683 with one 9 volts battery of PP 3 type, The Teletester TESTS3N, receives the information transmiRed by Satelit - 3 at eavery 45 seconds and emmits the audio signals continuing tha(the installation is fully functional), The check can be performed at a distance of 50 meters between Satelit - 3 and Remote Teletester S - 3. ,ABS IP54 + polycarbonate keyboard outer body having dimensions of L 130 mm X l 65 mm X h 25 mm. size IP 54 Protection class. (Mls. Duval Messien of France make having TeleTester TESTS3N model)	EA			

Note: Please mentioned in the budgetary offers that the Ex-works rates are inclusive of other taxes (i.e Freight & insurance, Labour cess etc.) or exclusive of other taxes)


 Executive Engineer
 400KV R.S. (O&M) Dn, Kalwa