

ABSTRACT

Name of Work: - Supplying, Installing, Testing & Commissioning of Advance Early Streamer Emission (ESE) Lightning Arrestor for Jigaon Lift Irrigation Scheme Stage 9 (B) Lanjud Distt. Buldhara

Sr. No.	Description	Qty.	Rate (Rs.)	Amount (Rs.)
1.	Supplying Advance Early Streamer Emission (ESE) Protector Lighting Arrestor as per NFC 17 - 102 / UNE 2 1186 standards of France with guarantee for one year having following features and controls Mounted at a height of 5 mtr above top terrace level giving level - I protection having 79 mtr protection radius (RP) complete. Polarized the tip with 35 to 45 KV with the progress of descending traser and of triggering of an anticipated at star of the Ascending Tracer, Remotely testing facility via radio signals with on board Transmitter using standard bequency and transmitting at every 90 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 NIMH type maintenance free Battery charged by 3 indestructible flexible solar cells charged continuously, The faces of each cell are made born Ethele Tetra Fluoro Ethylene (ET'FE) polymer material, The ESE air terminal is an intelegent device able to synchronies with downward lightning and adopt to the - ve and + ve lightning quality.	1 No. ✓	200000/- ✓	200000.00 ✓
2.	Suppling and Erecting supporting mast of 4.5 mtrs. height made up of GI L material for pole structure having 4.5 Mtr. HeigJit complete with GI base plate of size 250 x 250 mm & 18 mm thick and required civil wotk and stay supports with wire ropes having 8 / 19 constnioion with suitable insulator etc. (NDSR)	1 No. ✓	24375/- ✓	24375.00 ✓
3.	Supplying GI Strip to terminate earthing from air terminal along with necessary fitting .	170 Kg ✓	475/- ✓	80750.00 ✓
4.	SuppJing and Erecting 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 pet referent IS specifications designed and situated so as the resistance of Earth Electrode can be made.	1 No. ✓	3000/- ✓	3000.00 ✓
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 lightning protection system, vi) It should be IP 67 tested. vii) Easy to monitor & install viii) No maintenance ix) • It should be tested by CPRI (NDSR)	1 No. ✓	15000/- ✓	15000.00 ✓
6.	Suppling typical earth pit with TEREK + Maintenace Free Earthing compound 3 Bags of 5 Kgs (one bag for each earth pit) in weight as per Specification and 2 bags each of 12.5 kg in each earth pit as per specifications Rod Electrode - 2 Meter 17.2 mm Dai. 250 microne copper bonded rod of 3 nos (3 Earth Pits required for LPS Sysytem). and HOPE chamber for earth	3 Nos. ✓	15000/- ✓	45000.0 ✓

Pit.

7.	Supply of 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 bequency band complying with ETS 3000220 and ETS 300683 with one 9 volts battery of PP 3 type. The teletester can be programmed according to address on the satellite-3 to be controlled. The Teletester TESTS3N, receives the information transmitted by Satelit - 3 at eavery 45 seconds and emmits the audio signals continuing (the installation is fully functional) ,The check can be performed at a distance of 50 meters between Satelit - 3 and Remote Teletester S - 3. The visible indication ,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.	1 No. ✓	86230/- ✓	86230.00 ✓
			Total	Rs. 454355.00 ✓
			Add GST 18 %	81783.90 ✓
			Total	536138.90 ✓
			Say Rs.	5,36,139/- ✓

(Rs. Five Lac Thirty Six Thousand One Hundred & Thirty Nine Only)

Prepared by



B.V. Thakare
Sectional Engineer.
(Electrical)



(S.V. Nirkhe)
Deputy Engineer
Gate Mfg. & Erection
Sub-Division No.1, Akola.

Technically Checked & found correct



(R.G. Vaidya)
Deputy Engineer
Lift Irrigation Mechanical & Electrical
Sub-Div No.1, Bhandara.

Sanctioned Estt. NO. 180

EE/MD/AK/2026. Dt. 24/03/2026

Sanctioned for Rs. 5,36,139/- (Five Lac thirty six thousand one hundred and thirty nine) only



Executive Engineer
Mechanical Division
Akola