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Item Rate BoQ

Tender Inviting Authority: Asstt. General Manager (E-E)

Name of Work: "Extension of Terminal Building, Extension of Apron, C/o Hanger for AB-32 aircraft & allies works at CE Jamnagar."

Sub Head : Provision of Apron Edge Lighting works"

Contract No: AAI/JAMNAGAR/AGM(E-E)/e-NIT-02/22-23

Tender ID : 2022_AAI_121971_1

Name of the Bidder/ Bidding Firm / Company :	TECHNO ELECTRICALS							
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)								
NUMBER #		TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR /	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	6	7	8
1	Supply of elevated type 7.5 W(Maximum) LED Taxiway Edge light fitting (MIRL fitting) for use as Taxiway / Apron Edge /Turning Pad lights suitable for operation at 2.8 Amps to 6.6 Amps series circuit supply current complete with suitable LEDs, omni-directional blue / red lens, lens clamping mechanism, breakable coupling, rings /gaskets, base plate with 06 nos. M-10 stainless steel bolts and including an integrated encapsulated suitable electronic converter with standard secondary lead etc. complete fitting confirming to latest ICAO standards /requirement complete as required.	Item 1	22.00	Each	INR	4000.00	88000.00	INR Eighty Eight Thousand Only
2	Supply of 5 KV grade plug and receptacle of type - I Class B connector and suitable for field attachment with 5 KV grade PVC insulated, PVC sheathed single core 6 sq. mm copper conductor cable conforming to technical specifications etc complete as required.							
2.1	6 Sq. mm	Item 2	22.00	Each	INR	480.00	10560.00	INR Ten Thousand Five Hundred & Sixty Only
3	Supply of indoor type air-cooled microprocessor based constant current regulator of thyristor controlled type suitable for use on input supply voltage 230V/415V, ±10%, 50 c/s input AC supply with output power of following rating with 5 steps variation of current output suitable for local and remote control operations with 24/48 volts integral control supply and complete with output digital ammeter of (0.30) Amps range, over current, over voltage, earth fault protection and earth leakage meter, positive feed back indication equipments, complete with 5.0 KV grade suitable current transformers and relay contacts.							
3.1	4 KW, 6.6 A CCR	Item 3	1.00	Each	INR	210000.00	210000.00	INR Two Lakh Ten Thousand Only
4	Supply of 15 Watt 6.6 Amps /6.6 Amps 5 KV grade 50 Hz Isolating transformer series type encapsulated in neoprene type rubber with primary and secondary leads as specified in particular technical specification.	Item 4	22.00	Each	INR	3000.00	66000.00	INR Sixty Six Thousand Only
5	Supply of following sizes 5 KV grade PVC insulated & PVC sheathed, antitermite & anti-rodent, multistranded copper conductor single / double core unarmored Airfield lighting cable confirming to IS 1554 (Part-II) with up to date amendments and confirming to tenders technical specifications, terms & conditions etc. complete as required.							
5.1	Single core 6 Sq. mm	Item 5	1151.00	Meter	INR	105.00	120855.00	INR One Lakh Twenty Thousand Eight Hundred & Fifty Five Only
5.2	2C X 6 Sq. mm	Item 6	365.00	Meter	INR	220.00	80300.00	INR Eighty Thousand Three Hundred Only

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1	2	3	4	5	12	6	7	8
6	Supply of C. I. Isolating transformer housing box, water tight round type, metal container of outside parameter size 330mm height 450mm made of 10mm thick cast iron moulding all round expect top surface, which is 15mm thick, cast iron moulding suitable to receive light fitting base plate on the top & under ground housing associated with transformer power cable & having a clear hole center at one site surface center 75mm above button surface suitable to receive one no. of 50mm dia "B" class GI pipe and including check nuts as required and another hole at 175mm from the bottom of C. I. box to receive one no. 15mm dia, "B" class, GI pipe and check nut as required. The box should have two SS earth bolts of M10 x 30mm tapped inside near the hole (4" away from the hole centre) and having a drain hole at the bottom suitably tapped to receive 15mm dia, 'B' class GI pipe and having clear opening of 220mm at the top surface and 6 nos. M10 tapped hole at the hole centre 260mm to receive fitting base plate and bolts as required as per the drawings.	Item 7	18.00	Set	INR	5600.00	100800.00	INR One Lakh Eight Hundred Only
7	Supply of C.I collar, suitable for water tight round type, metal container of outside dia. 330mm, height 50mm made of 10mm thick cast iron moulding all round, except the top surface, which is 15mm thick cast iron moulding suitable to receive a light fitting base plate on the top and the bottom. The box should have clear opening of 220mm at the top and bottom surface and 6 Nos. M10 tapped hole at centre 260mm to receive fitting base plate at top and 6 Nos. M10 tapped hole at centre 260mm to attach the existing CI housing box at base and bolts as required.	Item 8	12.00	Set	INR	2700.00	32400.00	INR Thirty Two Thousand Four Hundred Only
8	Installation, Testing, and Commissioning of elevated type MIRL fittings on the existing transformer housing boxes including installation of Isolating transformer, lens, lamps, laying of secondary lead upto 8 meters in pipe and other accessories, alignment, leveling and making transformer connections, earth connections etc complete as required.	Item 9	18.00	Job	INR	150.00	2700.00	INR Two Thousand Seven Hundred Only
9	Installation, testing and commissioning of 4 to 30 KW capacity indoor type air cooled, microprocessor based constant current regulator of thyristor controlled type suitable for use on input supply voltage 230V/415V, ±10%, 50 c/s input AC supply with output power of following rating with 5 steps variation of current output suitable for local and remote control operations with 24/48 volts integral control supply also including minor civil works, control & power cable terminations, earthing termination etc. complete as required.	Item 10	1.00	Job	INR	7000.00	7000.00	INR Seven Thousand Only
10	Installation of transformer housing boxes with base concrete of 1:3:6 of size 630 x 630 x 100mm thick all round concrete of 1:2:4, 150mm thick, the top stopped with 1:2:4 cement including providing and fixing 250mm long 15mm dia. "B" class GI pipe with check nut for drainage of water including excavation of side shoulder and refilling (wherever the transformers boxes are not in a line the same has to be aligned in such a way that the centre fall in a straight line) etc. complete as required.	Item 11	18.00	Job	INR	2800.00	50400.00	INR Fifty Thousand Four Hundred Only
11	Making field connections by crimping 6 sq. mm plug and receptacle with existing 6 sq. mm single core PVC copper conductor cable including filling the gap with water sealant material and applying PVC Insulated tape etc. complete as required.	Item 12	36	Each	INR	120.00	4320.00	INR Four Thousand Three Hundred & Twenty Only
12	Excavation of the cable trenches in hard rock not exceeding 1.5 meter in width, and lift upto 1.5 meter, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 meter.	Item 13	100	Cum	INR	700.00	70000.00	INR Seventy Thousand Only
13	Laying of one number PVC insulated and PVC sheathed/ XLPE power cable of 11 KV grade of following size direct in ground including excavation sand cushioning, protective covering, and refilling the trench etc. as required, but excluding sand cushioning, protective covering.							
13.1	Upto 120 sq. mm	Item 14	305	Meter	INR	285.00	86925.00	INR Eighty Six Thousand Nine Hundred & Twenty Five Only
14	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing RCC/ HUME/ METAL /HDPE pipe as required							
14.1	Upto 120 sq. mm	Item 15	941	Meter	INR	20.00	18820.00	INR Eighteen Thousand Eight Hundred & Twenty Only

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1	2	3	4	5	12	6	7	8
15	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 11 KV grade of following size in the existing masonry open duct as required.							
15.1	Upto 120 sq. mm	Item 16	270.00	Meter	INR	20.00	5400.00	INR Five Thousand Four Hundred Only
16	Supplying and laying of 63 mm dia. DWC HDPE pipe ISI marked along with all accessories like socket, bend, couplers etc. conforming to IS 14930, Part II complete with fitting and cutting, jointing etc.in the existing trench, complete as required.	Item 17	260.00	Meter	INR	165.00	42900.00	INR Forty Two Thousand Nine Hundred Only
17	Supplying and laying of following dia "B" Class, ISI, GI Pipe including excavation of cc/hard/soft soil complete with threading and alignment of pipe with transformer housing box, providing check nuts, as required							
17.1	15 mm Dia	Item 18	101.00	Meter	INR	250.00	25250.00	INR Twenty Five Thousand Two Hundred & Fifty Only
17.2	50 mm Dia	Item 19	664.00	Meter	INR	700.00	464800.00	INR Four Lakh Sixty Four Thousand Eight Hundred Only
18	Laying of minimum 63 mm Dia GI pipe at a depth upto 1.5 m below ground level by HDD (Horizontal direction drilling) work using trenchless technology for cable laying below existing taxi tracks of IAF / AAJ complete as required.	Item 20	60.00	Meter	INR	800.00	48000.00	INR Forty Eight Thousand Only
19	Supplying and making cable route marker with 10 cm X 10 cm X 5 mm thick G.I. Plate with inscription on, bolted/ welded to 35 mm x 35 mm x 6 mm angle iron, 60 cm long and fixing the same in ground as required.	Item 21	20.00	Each	INR	280.00	5600.00	INR Five Thousand Six Hundred Only
20	Providing and fixing of advance technology earth electrode earthing system fabricated from High Tensile steel rods(Cu bonded Earth electrode Rod technology) with SS Double Sided Clamp (175mm X 50mm x 3mm) & cavity between rods pressure filled with highly conductive non-corrosive crystalline material complete with chemically modified homogeneous earth enhancing compound (Loresco powerfil carbon based back fill compound 25 Kg) to treat the soil for lowering the effective ground impedance for each earth pit to make it maintenance free and to minimize the ground voltage potential rise i/c excavation of Eco friendly rust proof heavy duty weather proof polyethylene earth pit chamber with suitable to accommodate earth electrode (254 mm Top, 330mm dia bottom & 260 mm height), prefabricated MS enclosure with cover plate all as reqd. & conforming to (IS:3043 : 1987) duly CPRI/ERDA approved all as required & as specified for Size :- Electrode rod dia = 17.2 mm Length of electrode rod = 3 Mtr	Item 22	8.00	Set	INR	6500.00	52000.00	INR Fifty Two Thousand Only
21	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	Item 23	40.00	Meter	INR	525.00	21000.00	INR Twenty One Thousand Only
22	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Item 24	240.00	Meter	INR	170.00	40800.00	INR Forty Thousand Eight Hundred Only
23	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	Item 25	1801.00	Meter	INR	20.00	36020.00	INR Thirty Six Thousand & Twenty Only
Total in Figures							1690850.00	INR Sixteen Lakh Ninety Thousand Eight Hundred & Fifty Only
Quoted Rate in Words		INR Sixteen Lakh Ninety Thousand Eight Hundred & Fifty Only						