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Item Rate BoQ

Tender Inviting Authority:

Name of Work: Replacement of LT panel with bus bar arrangements and associated electrical works at CE Tezpur Airport,(Balance work).

Contract No: 2021_AAI_86124_1

Name of the Bidder/ Bidding Firm/	M/s S.T. Electricals					
PRICE SCHEDULE (DOMESTIC TENDERS - RATES ARE TO GIVEN IN RUPEES (INR) ONLY) (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)						
NUMBE R #	TEXT #	NUMBE R #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Qty.	Units	BASIC RATE Excluding GST In Figures To be entered by the Bidder in Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	4	5	7	13	15
2	Dismantlling of Existing 415V , 50 Hz AC ,Signal FSU type panel having incomer capacity upto 250 Amps and with maximum 20 Nos outgoing of various capacity including disconnecting all the terminals of incming and outgoing cables/wires making temporary power supply arrangement wherever power supply to equipment/unit cannot be disrupted ,shifting /termination of all the outgoing and incoming cables to the newly installed panels, shifting of the dismantal panels to AAI store etc as required (For Switchroom panel)	4.0	Job	34000.00	136000.00	INR One Lakh Thirty Six Thousand Only
3	Essential LT Panel (PTTA) Shifting of panel by mechanical means or any other way from power house premises to existing switch room (inside terminal building) & Installation, Testing and Commissioning in existing switch room of cubicle type LT panel(IP-42 for indoor panel) suitable for 415V+/-10%, 3 Phase, 4 wire 50 Hz AC supply system. The panel consisting of as below:- Dimension :- Panel is in two part. Each part having 2200mm(Height) x 1940mm(Front Length) x 800mm (Depth) Incoming: a) 02 Nos. MCCB, 250 Amps, 36 kA, 4 Pole, thermal magnetic release type MCCB (Ics=100% Icu) complete with following accessories: Each Incomer have one set of the following items: Intelligent multi-function digital meter to read V,A,kVA, KW, kVAR, PF, Hz etc with communication facility (RS-485 port). LED display with required Nos CTs, 800/5,15 VA, class 1.0 and control circuit wiring with 2 Amp MCB for controlling. 1 Set of Indication Lamps, LED type, R,Y,B Phase indicating lamp with 2 Amp MCB for controlling. Bus coupler: (i) 4 pole, 250 Amps, 36 KA thermal magnetic release type MCCB (Ics=100% Icu) -1 Nos. (ii) ON-OFF indication lamp - 02 nos. (iii) Panel is interlocked electrically & mechanically (castle key) so that only 3 MCCB's i.e. 2 Incomers + 1 bus coupler to eliminate any possible of accidentally approaching two supplies at one bus section. Outgoing (i) 4 pole, 100 Amps,25 KA thermal magnetic release type MCCB (Ics=100% Icu) - 10 No. (ii) 4 pole, 63 Amps MCB (Ics=100% Icu) - 16 No (iii) 4 pole, 32 Amps, MCB (Ics=100% Icu) - 16 No LED type ON/OFF indication lamp - 16 set. (Each breaker is extended with 1 Set Rotary operating mechanism and 'ON' (Red) indication lamp (LED type) including terminal extension spreaders and 3ph LED Ammeter along with suitable range of CT's including connections etc., as required for all the MCCB's)	2.0	Job	20000.00	40000.00	INR Forty Thousand Only

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4	Non-Essential LT Panel (PTTA) Shifting of panel by mechanical means or any other way from power house premises to existing switch room (inside terminal building) & Installation, Testing and Commissioning of cubicle type LT panel, IP-42 for indoor panel, suitable for 415V+/-10%, 3 Phase, 4 wire 50 Hz AC supply system. The panel consisting of as below:- Dimension :- 1825mm(Height) x 1850mm(Front Length) x 400mm (Depth) Incoming: a) 01 Nos. MCCB, 250 Amps, 36 kA, 4 Pole, thermal magnetic release type MCCB (Ics=100% Icu) complete with following accessories: Each Incomer shall have one set of the following items: Intelligent multi-function digital meter to read V,A, kVA, KW, KVAR, PF, Hz etc with communication facility (RS-485 port). LED display with required Nos CTs, 800/5, 15 VA, class 1.0 and control circuit wiring with 2 Amp MCB for controlling 1 Set of Indication Lamps, LED type, R,Y,B Phase indicating lamp with 2 Amp MCB for controlling. Busbar: TPN aluminium extensible type main bus bars of minimum of 400 Amps. capacity with heat shrinkable coloured sleeves and i/c DMC / SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 36kA capacity for 1 sec. Outgoing (i) 4 pole, 100 Amps, 25 KA thermal magnetic release type MCCB (Ics=100% Icu) - 07 Nos. (ii) 2 pole, 25 Amps (Ics=100% Icu) - 12 No LED type ON/OFF indication lamp - 9 set. (Each breaker shall have extended 1 Set Rotary operating mechanism and 'ON' (Red) indication lamp (LED type) including terminal extension spreaders and 3ph LED Ammeter along with suitable range of CT's including connections etc., as required for all the MCCB's)	2.0	Job	20000.00	40000.00	INR Forty Thousand Only
5	Supplying and laying 25mm x 5mm G.I.strip at 0.50 metre below ground as strip earth electrode ,including connection/terminating with G.I. nut ,bol,spring ,washer ,etc as required .(Joining shall be done by overlapping and with 2 sets of G.I. nut bolt &spring washer spaced at 50mm)	40.0	Mtr	200.00	8000.00	INR Eight Thousand Only
6	Earthing with G.I. earth pipe 4.5meter long 40mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/coke and salt as required.	8.0	Set	6500.00	52000.00	INR Fifty Two Thousand Only
7	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing as required (Double run)	30.0	Mtr	100.00	3000.00	INR Three Thousand Only
8	Supplying and laying 6 SWG G.I wire at 0.50 metre below ground level for conductor earth electrode ,including connection /termination with G.I thimble etc as required	20.0	Mtr	50.00	1000.00	INR One Thousand Only
9	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.	20.0	Mtr	50.00	1000.00	INR One Thousand Only

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10	Providing and Fixing Earth bus of size 32 x 5mm G.I .Strip all around the switch room wall with G.I C-clamp.					
11	a) Departure	20.0	Mtr	160.00	3200.00	INR Three Thousand Two Hundred Only
12	b) Arrival	20.0	Mtr	160.00	3200.00	INR Three Thousand Two Hundred Only
13	Installing following size of Hot Dipped Galvanised Iron ladder type cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5% in convenient section ,joined with connection ,suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts etc. as required (Switch room)					
14	a) 150mm width x 50 mm depth x 3mm thickness	60.0	Mtr	320.00	19200.00	INR Nineteen Thousand Two Hundred Only
15	Installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%,in convenient section ,joined with connectors ,suspended from the ceiling with G.I. suspenders including G.I. bolts &nuts etc. as required (roof of terminal building)					
16	a) 150mm width x 50 mm depth x 2 mm thickness	40.0	Mtr	320.00	12800.00	INR Twelve Thousand Eight Hundred Only
17	b) 300 mm width x 50 mm depth x 2 mm thickness	8.0	Mtr	350.00	2800.00	INR Two Thousand Eight Hundred Only
18	Laying and fixing of one number PVC insulated and PVC sheathed/ XLPE power cables of 1.1 KV grade of following size on cable tray as required					
19	a) Upto 35 sq. mm (clamped with 1 mm thick saddle)	228.0	Mtr	50.00	11400.00	INR Eleven Thousand Four Hundred Only
20	b) Above 35 sq. mm and upto 95 sq. mm (clamped with 25 x 3 mm MS flat clamp)	73.0	Mtr	80.00	5840.00	INR Five Thousand Eight Hundred & Forty Only
21	c) Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	20.0	Mtr	150.00	3000.00	INR Three Thousand Only
22	d) Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	20.0	Mtr	150.00	3000.00	INR Three Thousand Only
23	Chase cutting of wall including providing 32 mm dia PVC pipe ,MS box ,Phenolic Laminated sheet etc for lowering the following Wires from wall nearly below the trench cover after disconnection if required from the DB/Switch as required 4x10 sq mm =7 nos 2x10 sqmm =2 nos 2x6 sqmm =2 nos	1.0	Job	1600.00	1600.00	INR One Thousand Six Hundred Only
24	Supply of 3.5 x 240 sq mm XLPE insulated & PVC sheathed armoured aluminium conductor under ground cable of 1.1KV grade conforming to IS:7098(Part-I) with upto date ammendment as per approved make list of AAI	20.0	Mtr	1650.00	33000.00	INR Thirty Three Thousand Only
25	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.					

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26	a) 3½ X 240 sq. mm	1.0	Each	6000.00	6000.00	INR Six Thousand Only
27	b) 3½ X 150 sq. mm	1.0	Each	4500.00	4500.00	INR Four Thousand Five Hundred Only
28	c) 3½ X 185 sq. mm	1.0	Each	4500.00	4500.00	INR Four Thousand Five Hundred Only
29	d) 4 X 25 sq. mm	2.0	Each	2500.00	5000.00	INR Five Thousand Only
30	e) 4 X 35 sq. mm	2.0	Each	2500.00	5000.00	INR Five Thousand Only
31	f) 4 X 16 sq. mm	2.0	Each	2000.00	4000.00	INR Four Thousand Only
Total in Figures					409040.00	INR Four Lakh Nine Thousand &Forty Only
Quoted Rate in Words		INR Four Lakh Nine Thousand &Forty Only				