

Government eProcurement System Created By: HIRU MONI DAS Created Date/Time: 13-Dec-2022 04:48 PM Tender Title: Replacement of 11KV HT Panel along with VCB at Tezpur Airport. Tender ID: 2022_AAI_135392_1									
Tender Inviting Authority:									
Name of Work: Replacement of 11KV HT Panel along with VCB at Tezpur Airport.									
Contract No: 2022_AAI_135392_1									
SCHEDULE OF WORK / ITEM(S)									
Sl.No	Description of Work / Item(s)	No.of Qty	Units	Awasthi Electric Works(GSTN-09ABAPA1866D1Z5)		Aditya Techno Products Private Limited(GSTN-NA)		Singhi InfraPower Projects Pvt. Ltd.(GSTN-NA)	
				Rate	Amount	Rate	Amount	Rate	Amount
1.00	11KV FOUR Nos. VCB HT PANEL BOARD. Supply, Installation, Testing & Commissioning of indoor type (IP 4X) floor mounted metal clad, 11 kV Switch Board VCB panel with 04 Nos. VCBs, totally enclosed & fully interlocked, truck mounting, horizontal draw out, horizontal isolation type vacuum breaker as per IS13118 /IEC 62271-100 (2007) for breakers & 200 (2003),for panels /IS3427 as amended up to date, having capacities as mentioned below, free standing extensible on both sides, single break, trip free mechanism, motorised charged and auto/ manually closing breaker suitable for use on 11 KV, 3 Phase, 50Hz A.C. supply with short circuit fault level of 500 MVA, complete with self contained short time current 26.3 kA for 3 sec, Internal Arc Test for AFLR 26.3 kA for 1 sec at individual compartments i.e busbar, VCB, and cable compartment, rack in and rack out mechanism, air insulated but encapsulated copper bus bars capacity meeting fault level current , DC power pack, breaker featured with mechanical ON/ OFF indicator with hand trip device, Breaker control TNC switch and all accessories such as shunt trip coil, and auxiliary switch of 4NO+4NC (as per requirement bu minimum 4Nos. for each switch), motorised and manually operated spring assisted closing mechanism, emergency trip push button, interconnections, space heaters, earthing, etc. and equipped with following switchgears and accessories, connections suitable for cable upto 3C x 120 sqmm XLPE cable of 11 KV grade (cable entry from bottom), Separate earthing switch shall be provided for Cable earthing. The earthing truck shall be so designed that it is impossible to earth a live system. cable terminations suitable for 3C x 120 sq.mm. XLPE 11 kV cable. The HT panel will be fitted complete with all the follwing required accessories.								
2.00	A. Incomer -2 Nos, Each consisting of following: (i) 1 No. of 630 Amp ,11 KV, 3 Ph, 3P VCB. (ii) 1Set- LED indicationlamp for R,Y,B breaker, ON-OFF-TRIP, Trip Circuit Healthy, Spring Charged, DC Supply Healthy fails etc. (iii)1 No - Multifunction Meter with accuracy class 0.5 LED display of I , V, Hz, Active, Reactive , Apparent Power & Energy, Power factor, % THD , Maximum demand load, (complying with IEC61557-12) with RS 485 & Ethernet port and protection MCB and required accessories to complete the system. (iv) 3 No. Cast resin drawout type PTs 11 kV / √3 / 110 √3, class 0.5,100 VA burden including HT HRC fuse on 11 kV Side and MCBs on secondary side prtction. (v) 3 No. Cast resin insulated Dual core dual ratio 3 CTs 30-60/5-5A of 15VA burden and accuracy Class - 0.5 for metering and class 5P10 for protection. (vi) 1 Set of each relay: Aux. relays for Anti Pumping & indication. Trip Circuit supervision relay '-Master Trip Circuit Relay (vii) 3 Nos. of over current & short circuit 51,51N & one earth fault element with numerical IDMT relay with shunt trip on 24volts DC, on RS 485 modbus communication consisting 2 element over current relay and earth fault with last 15 trip history, Over & under voltage, Over & under frequency. (viii) 1 Set of Earth Switch B. Busbar 630 amps TP,12 KV Copper Bus bar with heat shrinkable insulated sleeves with cast epoxy insulator to withstand full short circuit currents upto 26.3 kA for 3 second.								

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				Rate	Amount	Rate	Amount	Rate	Amount
3.00	C. Outgoings 2 Nos, each consisting of following; (i) 1 No. 630 Amp., 11kV VCB, (ii) 1Set- LED indicationlamp for R,Y,B breaker, ON-OFF-TRIP, Trip Circuit Healthy, Spring Charged, DC Supply Healthy fails etc. (iii) 1Set of each relay: Aux. relays for Anti Pumping & indication. Trip Circuit supervision relay - Master Trip Circuit Relay Aux. relays for Transformer WTI alarm trip & Hooter. (iv) 3 Nos. of over current & short circuit 51,51N & one earth fault element with numerical IDMT relay with shunt trip on 24volts DC, on RS 485 modbus communication consisting 2 element over current relay and earth fault with last 15 trip history, and 1 Nos of Master trip relays. (v) 1 No - Multifunction Meter with LED display of I, V, Hz, Active, Reactive, Apparent Power & Energy, Power factor, %THD, Maximum demand, (complying with IEC61557-12) with RS 485 & Ethernet port and protection MCB and required accessories to complete the system. (vi) 3 No. Cast resin insulated Dual core dual ratio 3 CTs 30-60/5-5A of 15VA burden and accuracy Class 0.5 for metering and class 5P10 for protection. (vii) Alarm annunciator with 8 windows and buzzer, ACK, rest, test push button for transformer faults and electrical faults in respective window. (viii) 1Set of Earth Switch D. All I/C & O/G Breaker have following Accessories & indication: 6A fuse / MCB for spring charge DC Control Supply healthy & fails Surge Arrestor shall be provided, AC Supply control ON/OFF Switch, Circuit breaker failure Alarm indication, VCB spring charge indication, 18 watt LED Illumination lamp, ON / OFF with limit Switch, T-N-C (Trip, Neutral, Close) breaker control switch with indication arrangement. All control wiring with protection & test terminal block as required, Emergency trip push button 2 amp fuse / MCB for lamp 60 watts space heater with thermostat 16 amp fuse/MCB for space heater and plug point, 6/16 amps 5 Pin with piano type switch socket outlet.	1.00	Job	2525000.00	2525000.00	2410502.00	2410502.00	2700000.00	2700000.00
4.00	Dismantling of existing 3-phase, 11 KV 50 HZ AC supply HT panel consisting of 4 nos., 3- poles, 600/630 Amps Oil Circuit Breakers along with all the electrical accessories, battery bank consisting of 24 V, batteries. Including shifting of dismantled material from HT panel room to AAI store complete as required.	1.00	Job	25000.00	25000.00	25000.00	25000.00	10000.00	10000.00
5.00	Supplying and making indoor cable end termination with heat shrinkable jointing kit complete with all accessories including lugs suitable for following size of 3 core, XLPE aluminium conductor cable of 11 KV grade as required : 3 core x 120 sq. mm	4.00	Each	10850.00	43400.00	7500.00	30000.00	3500.00	14000.00
6.00	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	2.00	Set	14000.00	28000.00	19500.00	39000.00	25000.00	50000.00
7.00	Supplying and laying 25 mm X 5 mm copper strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of brass nut bolt & spring washer spaced at 50mm).	5.00	Meter	1250.00	6250.00	1540.00	7700.00	2000.00	10000.00
8.00	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut,bolt, spring, washer excavation and re-filling etc. as required.	6.00	Meter	1500.00	9000.00	2130.00	12780.00	2500.00	15000.00
9.00	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	28.00	Meter	1150.00	32200.00	1188.00	33264.00	2000.00	56000.00
10.00	Supply of following size of XLPE insulated PVC Sheathed aluminium conductor armoured power cable of 11 KV grade(11 kv- earth) conforming to IS 7098 (PART -II) amended upto date. 3corex 120 sq. mm	100.00	Meter	790.00	79000.00	1125.00	112500.00	1000.00	100000.00
11.00	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 etc. complete as required. Upto 120 sq. mm	20.00	Meter	100.00	2000.00	100.00	2000.00	100.00	2000.00
12.00	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 pipe complete as required. Upto 120 sq. mm	10.00	Meter	150.00	1500.00	120.00	1200.00	80.00	800.00
Total in Figures					2751350.00		2673946.00		2957800.00

L1 Amount	L1 Vendor
2410502.00	Aditya Techno Products Private Limited
10000.00	Singhi InfraPower Projects Pvt. Ltd.
14000.00	Singhi InfraPower Projects Pvt. Ltd.
28000.00	Awasthi Electric Works
6250.00	Awasthi Electric Works
9000.00	Awasthi Electric Works
32200.00	Awasthi Electric Works
79000.00	Awasthi Electric Works
2000.00	Aditya Techno Products Private Limited, Singhi InfraPower Projects Pvt. Ltd., Awasthi Electric Works
800.00	Singhi InfraPower Projects Pvt. Ltd.

Lowest Amount Quoted BY: Aditya Techno Products Private Limited(2673946.00)

BOQ Summary Details**Tender Title: Replacement of 11KV HT Panel along with VCB at Tezpur Airport.****Tender ID: 2022_AAI_135392_1**

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	Aditya Techno Products Private Limited	2673946.00	L1
	2	Awasthi Electric Works	2751350.00	L2
	3	Singhi InfraPower Projects Pvt. Ltd.	2957800.00	L3