

Government eProcurement System
Created By: VENKATESWARA RAO CH
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Tender Title: Construction of DVOR Building Including Electrical Works at Kalaburagi Airport SH- Provision of Power Supply including LT Panel and AC units for DVOR
Tender ID: 2020_AAI_49156_1

Tender Inviting Authority: Asst.General Manager(E-E), AAI, Begumpet Airport.

Name of Work: Construction of DVOR Building Including Electrical Works at Kalaburagi Airport. SH: Provision of Power Supply including

Contract No: 2020_AAI_49156_1

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	Techno Electricals		Shantha Electricals and Engineers Pvt Ltd		KALKI ELECTRICALS		SWAS AND IT PRIVATE LIMITED	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1.00	Design, Manufacturing, Supply, Installation, Testing & Commissioning of LT Panel, cubicle type, made out of 2mm thick CRCA sheet,totally enclosed, IP 42, free standing, floor mounting, dust and vermin proof, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system with busbars extensible on both sides, making interlocking arrangement between incomers, including internal wiring with suitable size wires/cable, interconnection, duly powder coated painting etc. including supply & installation of following switchgears, metering instruments and accessories in the LT Panel and as per specifications. INCOMER 1 : 1 No-200A 4P 25KA MCCB (With Microprocessor based Release). 1 Set-R,Y & B Indication Lamps (LED Type) with control fuse 1No- (0-200A MIN) Digital Multifunction meter 50HZ,3-PHASE AC 240V , class-1 ,flush mounting with RS485 1 Set-200/5A cast resin type CT with necessary terminal block INCOMER 2 : 1 No-200A 4P 25KA MCCB (With Microprocessor based Release). 1 Set-R,Y & B Indication Lamps (LED Type) with control fuse 1No- (0-200A MIN) Digital Multifunction meter 50HZ,3-PHASE AC 240V , class-1 ,flush mounting with RS485 1 Set-200/5A cast resin type CT with necessary terminal block BUSCOUPLER : 1 No-250A 4P 25KA MCCB BUS BAR: R,Y,B, N & earth busbars suitable for 250 Amps OUT GOING: 1 nos. 125A TPN MCCB Microprocessor based with Rotary handle necessary arrangement 1 no. 63 A plug & socket	1.00	Job		235454.00	235454.00	240000.00	240000.00	160000.00	160000.00	226077.00	226077.00
2.00	Supply of 3½ core x 300 Sq.mm XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1KV grade confirming to relevant IS 1554 / IS 7098 with upto date amendments etc, as required.	3900.00	Mtr		733.00	2858700.00	900.00	3510000.00	880.00	3432000.00	820.00	3198000.00

L1 Amount	L1 Vendor
160000.00	KALKI ELECTRICALS
2858700.00	Techno Electricals

3.00	Supplying and laying of following size 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.direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. , complete as required. a) 120 mm dia (OD-120 mm & ID-103 mm nominal)	3620.00	Mtr
4.00	Laying of one number PVC insulated and PVC sheathed I XLPE power cable of 1.1 kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required. A) Above 185 sq. mm and upto 400 sq. mm	60.00	Mtr
5.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing RCC/ HUME/ METAL/DWC/HDPE pipe as required. a) Above 185 sq. mm and upto 400 sq. mm	3780.00	Mtr
6.00	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 kV grade of following size in the existing masonry open duct as required. a) Above 185 sq. mm and upto 400 sq. mm	40.00	Mtr
7.00	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required. a) Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	20.00	Mtr
8.00	Supplying and Making end termination with brass compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required. a) 3.5 Core x 300 Sq. mm	4.00	Set
9.00	Providing, laying and fixing following dia G.I pipe (medium class) in ground complete with G.I fittings including trenching (75 cm deep) and re-filling etc. as required. a) 100 mm dia	48.00	Mtr
10.00	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. a) 3.5 X 300 sq. mm	6.00	Set
11.00	Earthing with G.I. earth plate 600 mm X 600 mm X 6 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
12.00	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.	30.00	Mtr

219.00	792780.00	270.00	977400.00	200.00	724000.00	120.00	434400.00
235.00	14100.00	315.00	18900.00	500.00	30000.00	450.00	27000.00
45.00	170100.00	90.00	340200.00	40.00	151200.00	75.00	283500.00
45.00	1800.00	90.00	3600.00	40.00	1600.00	75.00	3000.00
65.00	1300.00	135.00	2700.00	100.00	2000.00	85.00	1700.00
750.00	3000.00	720.00	2880.00	1200.00	4800.00	1000.00	4000.00
985.00	47280.00	1180.00	56640.00	1400.00	67200.00	1000.00	48000.00
3520.00	21120.00	4750.00	28500.00	8000.00	48000.00	5000.00	30000.00
6545.00	13090.00	7700.00	15400.00	8000.00	16000.00	6000.00	12000.00
515.00	15450.00	350.00	10500.00	480.00	14400.00	400.00	12000.00

434400.00	SWAS AND IT PRIVATE LIMITED
14100.00	Techno Electricals
151200.00	KALKI ELECTRICALS
1600.00	KALKI ELECTRICALS
1300.00	Techno Electricals
2880.00	Shantha Electricals and Engineers Pvt Ltd
47280.00	Techno Electricals
21120.00	Techno Electricals
12000.00	SWAS AND IT PRIVATE LIMITED
10500.00	Shantha Electricals and Engineers Pvt Ltd

13.00	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	30.00	Mtr
14.00	Supply, Installation, Testing and Commissioning of Three phase Surge protection (MOV, plug in type) capable with Neutral Earth of carrying nominal discharge of 100KA (block MOV), 8/20 micro second surge, protection level of 1.5KV in IP55 grade enclosure, complete with suitable safety circuit breaker, base interconnection with copper cable, end terminations etc., as per specifications enclosed (First stage protection to be provided at power entry point) Make : Tercel	1.00	Job
15.00	Providing of earth pits material using ISOGEL earth enhanced compound of 20kgs. ISOROD advanced chemical earth rod made with k type copper tube of 2.5" dia., 8fts. Long, 1.6mm thick installed vertically or horizontally as per the site conditions complete with flanges bends top cover heavy duty plastic inspection chamber including excavation and refilling etc as required. Make: Tercel.	1.00	Job
16.00	Providing and fixing of copper tape/strip of size 25x3mm on surface/existing pipe for loop earthing for site earthing and bonding etc., as required in 40mm dia GI pipe i/c supply and laying as per site requirement.	15.00	Mtr
17.00	Supply, Installing, Testing and Commissioning of Split type, 1.5 TR Airconditioner (cooling capacity: minimum 4500 Kcal/hr) of 5 star rating Inverter type Hi-Wall Split 1.5 Ton non ductable fan coil unit (indoor unit), condensing unit(outdoor unit) with rotary compressor suitable for operation on 1phase, 230V±10% , 50HZ, AC power supply including fixing the outdoor unit on a fabricated MS stand/wall Bracket/Brick foundation as per the site requirement . The supply of unit shall include the copper pipings , power cables for interconnecting between the indoor unit and out door unit as per standard manufacturer design (ie., up to 3 mtrs) including the drain pipes, first charge of refrigerant etc as required. (As per list of approved makes). a) Insulated copper pipe --- Liquid Line b) Insulated copper pipe ---- Suction Line c) 3 core x 2.5 sqmm PVC insulated copper wire. d) Suitable size of casing and capping/PVC pipe for covering the refrigerant line for above (a), (b) & (c) .	5.00	Each

225.00	6750.00	160.00	4800.00	200.00	6000.00	150.00	4500.00
112545.00	112545.00	80000.00	80000.00	24000.00	24000.00	125000.00	125000.00
35256.00	35256.00	31500.00	31500.00	16000.00	16000.00	35000.00	35000.00
758.00	11370.00	545.00	8175.00	900.00	13500.00	900.00	13500.00
36256.00	181280.00	31500.00	157500.00	42000.00	210000.00	55000.00	275000.00

4500.00	SWAS AND IT PRIVATE LIMITED
24000.00	KALKI ELECTRICALS
16000.00	KALKI ELECTRICALS
8175.00	Shantha Electricals and Engineers Pvt Ltd
157500.00	Shantha Electricals and Engineers Pvt Ltd

18.00	Supply, Installation, Testing and Commissioning of 3.0 TR vertical Split type Air-conditioner of floor mounting type consisting of non-ductable (1nos) type room unit (fan coil) with cord less remote control and one number out door condensing unit comprising 1x3.0 TR Scroll compressor suitable for operation on 3phase, 415 +/- 10% volts, 50HZ, AC supply including fixing the outdoor unit on a fabricated MS stand/wall Bracket/Brick foundation as per the site requirement and fixing of room (fan coil) unit including first charge of refrigerant etc, as required. (As per list of approved makes).	2.00	Each
19.00	Supply and Installation of following copper pipe for suction and delivery line with all accessories suitable for 1-phase, 1.5TR Split AC's i/c Insulation, power & Control cabling etc. as required. a) Insulated copper pipe - Liquid line b) Insulated copper pipe - Suction c) 3C X 2.5 sqmm copper conductor cable d) Insulation Foam tubing for covering the refrigerant lines in (a) & (b) e) Suitable size of casing and capping/PVC pipe for covering the refrigerant line of above (a),(b) & (c)	25.00	Mtr
20.00	Supply and Installation of following size copper pipe for suction and delivery line with all accessories suitable for 3-phase, 3.0 TR Vertical Split type Air-Conditioner i/c Insulation, power & Control cabling etc. as required a) Insulated copper pipe --- Liquid Line b) Insulated copper pipe ---- Suction c) 4 x1.5sqmm copper conductor cable. d) Insulation Foam tubing for covering the refrigerant lines in (a) & (b) e) Suitable size of casing and capping/PVC pipe for covering the refrigerant line of above (a),(b) & (c)	10.00	Mtr
21.00	Supply, installation, testing and commissioning of wall mounting type, 4 KVA Capacity, single phase, automatic line voltage stabilizer, suitable operation on 170 volts to 270 volts AC input ,200 volts to 240 volts AC output, single phase, 50Hz AC power supply with built in time delay, high voltage cut off, and low voltage cut off at 145 volts and input/output/trip indications and suitable for application of 1.5 Ton Air conditioning unit etc. as required.	5.00	Each

92265.00	184530.00	77000.00	154000.00	86000.00	172000.00	82000.00	164000.00
725.00	18125.00	1090.00	27250.00	880.00	22000.00	700.00	17500.00
825.00	8250.00	1545.00	15450.00	1000.00	10000.00	1000.00	10000.00
3865.00	19325.00	1860.00	9300.00	2800.00	14000.00	3500.00	17500.00

154000.00	Shantha Electricals and Engineers Pvt Ltd
17500.00	SWAS AND IT PRIVATE LIMITED
8250.00	Techno Electricals
9300.00	Shantha Electricals and Engineers Pvt Ltd

22.00	Supply and Installation of following size PVC pipe for drain line with all accessories, etc. as required. a) 20 mm dia (for 1.5TR split AC)	30.00	Mtr
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145.00	4350.00	225.00	6750.00	120.00	3600.00	120.00	3600.00
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3600.00	KALKI ELECTRICALS, SWAS AND IT PRIVATE LIMITED
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Total in Figures

4755955.00

5701445.00

5142300.00

4945277.00

Lowest Amount Quoted BY: Techno Electricals(4755955.00)

BOQ Summary Details

Tender Title: Construction of DVOR Building Including Electrical Works at Kalaburagi Airport SH- Provision of Power Supply including LT Panel and AC units for DVOR
Tender ID: 2020_AAI_49156_1

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	Techno Electricals	4755955.00	L1
	2	SWAS AND IT PRIVATE LIMITED	4945277.00	L2
	3	KALKI ELECTRICALS	5142300.00	L3
	4	Shantha Electricals and Engineers Pvt Ltd	5701445.00	L4

Signature Not Verified

Digitally signed by CHINTALA
VENKATESWARA RAO
Date: 2020.06.30 15:37:45 IST
Location: eProcurement System for Central
PSUs