

Government eProcurement System Created By: VENKATESWARA RAO CH Created Date/Time: 19-Jun-2020 12:31 PM Tender Title: Replacement of ILS at Begumpet Airport, Hyderabad. Sub Head- Provision of Electrical works including AC units etc. Tender ID: 2020_AAI_48476_1
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Tender Inviting Authority: Asst.General Manager(E-E), AAI, Begumpet Airport.

Name of Work: Replacement of ILS at Begumpet Airport, Hyderabad. Sub Head: Provision of Electrical works i/c AC units etc.

Contract No: 2020_AAI_48476_1

SCHEDULE OF WORK / ITEM(S)

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Estimated Rate	CHENNAI ENGINEERING SERVICES		Standard Airconditioning and Refrigeration Engineers		INDUSTRIAL ELECTRICALS AND CONTROLS		VOLKS ENERGIE PVT LTD	
					Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount
1.00	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor/ single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group A.	27.00	Point		499.00	13473.00	750.00	20250.00	250.00	6750.00	225.00	6075.00
2.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. a). 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	160.00	Mtr		129.00	20640.00	143.00	22880.00	100.00	16000.00	275.00	44000.00
3.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. a) 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	320.00	Mtr		149.00	47680.00	169.00	54080.00	150.00	48000.00	350.00	112000.00
4.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. a) 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	280.00	Mtr		169.00	47320.00	200.00	56000.00	120.00	33600.00	400.00	112000.00
5.00	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. a) 4 X 6 sq. mm + 2 X 6 sq. mm earth wire	40.00	Mtr		499.00	19960.00	480.00	19200.00	150.00	6000.00	450.00	18000.00
6.00	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC Insulated copper conductor single core cable as earth wire in existing surface/ recessed steel conduit including dismantling as required. Group A	12.00	Mtr		199.00	2388.00	437.00	5244.00	150.00	1800.00	225.00	2700.00
7.00	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. a). 3 x 1.5 sq. mm	90.00	Mtr		149.00	13410.00	48.00	4320.00	150.00	13500.00	120.00	10800.00
8.00	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. a). 3 x 2.5 sq. mm	80.00	Mtr		189.00	15120.00	70.00	5600.00	100.00	8000.00	175.00	14000.00
9.00	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required. a). 3 x 4 sq. mm	80.00	Mtr		229.00	18320.00	102.00	8160.00	100.00	8000.00	215.00	17200.00
10.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	23.00	Each		499.00	11477.00	306.00	7038.00	250.00	5750.00	175.00	4025.00
11.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	15.00	Each		599.00	8985.00	378.00	5670.00	400.00	6000.00	225.00	3375.00
12.00	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required. a) 20 mm dia	10.00	Mtr		49.00	490.00	80.00	800.00	250.00	2500.00	161.00	1610.00
13.00	Supply of 20W LED fixture (Size not less than 1200x108x62mm) surface and wall mounted LED batten, extruded aluminium housing provided for efficient heat dissipation with polycarbonate diffuser & integrated electronic driver. LED luminaire shall be suitable for 230V, 50Hz. 1-Phase AC supply as required.	20.00	Each		549.00	10980.00	460.00	9200.00	350.00	7000.00	400.00	8000.00
14.00	Supply of 36W LED fixture (Size not less than 595x595x65mm) Ultra modern designed architectural LED luminaire which provides soft-light and glare free symmetrical illumination suitable for Armstrong/Grid ceiling. LED luminaire shall be suitable for 230V, 50Hz. 1-Phase AC supply as required.	15.00	Each		2189.00	32835.00	3200.00	48000.00	1850.00	27750.00	2000.00	30000.00
15.00	Supply & fixing of 30W LED Energy saving and environmental friendly long life LED street light made up of pressure die cast aluminium housing with high power LED as lighting source and lens embedded PC cover having IP65 protection and impact resistance of K7, suitable for single phase, 230 volts, 50 Hz, AC supply, and supplying and fixing of 40 mm dia X 2.00 meter long G.I. pipe (medium class) bracket for mounting of above fitting on wall including bending the pipe to the required shape, 2 Nos. of suitable size flat iron clamps with nuts, bolts and washer, painting and including wiring (upto 2.0mtrs) with 3x1.5 Sq.mm copper conductor and complete as required.	20.00	Each		2999.00	59980.00	2100.00	42000.00	1500.00	30000.00	1600.00	32000.00
16.00	Supply of pedestal fan of 400mm sweep, 1350 RPM with control ON-OFF, variable speed modes, oscillation control, height adjustable, balanced 3 leaf suitable for operation on 230volts, 50Hz, AC power supply etc as required.(Make: Havells, Model: Swing or similar from list of approved makes)	8.00	Each		3999.00	31992.00	3100.00	24800.00	3500.00	28000.00	2800.00	22400.00

L1 Amount	L1 Vendor
6075.00	VOLKS ENERGIE PVT LTD
16000.00	INDUSTRIAL ELECTRICALS AND CONTROLS
47680.00	CHENNAI ENGINEERING SERVICES
33600.00	INDUSTRIAL ELECTRICALS AND CONTROLS
6000.00	INDUSTRIAL ELECTRICALS AND CONTROLS
1800.00	INDUSTRIAL ELECTRICALS AND CONTROLS
4320.00	Standard Airconditioning and Refrigeration Engineers
5600.00	Standard Airconditioning and Refrigeration Engineers
8000.00	INDUSTRIAL ELECTRICALS AND CONTROLS
4025.00	VOLKS ENERGIE PVT LTD
3375.00	VOLKS ENERGIE PVT LTD
490.00	CHENNAI ENGINEERING SERVICES
7000.00	INDUSTRIAL ELECTRICALS AND CONTROLS
27750.00	INDUSTRIAL ELECTRICALS AND CONTROLS
30000.00	INDUSTRIAL ELECTRICALS AND CONTROLS
22400.00	VOLKS ENERGIE PVT LTD

17.00	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting/LED fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	28.00	Each
18.00	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 5/6 A modular switch, connections etc. as required.	5.00	Each
19.00	Dismantling of existing wires/Ceiling fan/ exhaust Fan/switch board etc., as required	2.00	Each
20.00	Supplying & laying of 2 x 1.5 sqmm FRLS armoured cable, 600 / 1000V rated with annealed copper conductor as per applicable IS standard complete as required.	100.00	Mtr
21.00	Supply, Installation, testing and commissioning of MV Indoor type, floor mounted, compartmentalized, cubical type panel board of 415 volts(nominal) extendable on both sides, fabricated out of 2mm thick cold rolled sheet steel, free standing & totally enclosed, weather proof/dust proof/vermin proof with bottom/top cable entries & cable alleys. The switch board shall be suitable for operation 3phase, 4 wire, 50HZ, A/C power supply and with busbars and following switchgear, instrumentation, protective devices etc., complete with connections, interconnections, earthing, painting and marking etc complete as required. For Incoming : a) 250 Amps, 4 Pole, MCCB having 36 KA breaking capacity, 125 - 160 Amps thermal release range - 03 Nos. (2Nos Incomers + 1 Nos Bus Coupler). b).Castle key arrangement for inter locking of switches for incoming power supply. For Outgoing : c) 100Amps 3 pole, MCCB having 36 KA breaking capacity, 90 -100amps thermal release range -- 03nos. d) 63 amps DP MCB's -- 03 Nos. e) 32 amps TP MCB's --- 06 Nos. f) 6 to 32 amps Single pole 'C' MCB's --- 12 Nos. g) 6 to 32 amps Single pole 'B' MCB's -- 12 Nos. h) Timer switch ----- 03 Nos. Metering : i) 0 -500volts. Digital type voltmeter with selector switches along with control fuses(voltmeter shall have provision to read single phase voltage and 3phase voltage). j) 0 to 200amp Digital type Ammeter with 3nos CT'S of ratio 200/5amps and with selector switch, k) LED type Indicating Lamps for 03 phase and Control fuses to Monitor incoming power supplies. l)Aluminium busbar suitable for 250 Amps.Power terminals, gland plates, earth terminals etc.	2.00	Job
22.00	Supplying and fixing 4 way (4+12), Double Door, three pole and neutral, Vertical Loadline, prewired, sheet steel, MCB distribution board, 415 volts, on surface/recess, complete with loose wire box, terminal blocks, duly prewired with suitable size FRLS PVC insulated copper busbar, neutral link, earth bar, din bar, detachable gland plate, interconnections and powder painted including earthing etc. as required.(But without MCB/RCCB/Isolator)	2.00	Each
23.00	Supplying and fixing 6 A to 32 A rating, single pole, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.	24.00	Each
24.00	Supplying and fixing of 63A rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.	2.00	Each
25.00	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but with charcoal/ coke and salt) as required.	6.00	set
26.00	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. himble excavation and re-filling as required.	60.00	Mtr
27.00	Supplying and fixing 25 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP MCB in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	15.00	Each
28.00	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 : TerceI	2.00	Each
29.00	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: TerceI.	2.00	set

199.00	5572.00	150.00	4200.00	150.00	4200.00	250.00	7000.00
299.00	1495.00	442.00	2210.00	200.00	1000.00	175.00	875.00
199.00	398.00	2000.00	4000.00	3500.00	7000.00	400.00	800.00
59.00	5900.00	145.00	14500.00	110.00	11000.00	150.00	15000.00
349999.00	699998.00	130500.00	261000.00	300000.00	600000.00	155000.00	310000.00
8999.00	17998.00	7050.00	14100.00	4000.00	8000.00	7000.00	14000.00
199.00	4776.00	240.00	5760.00	200.00	4800.00	180.00	4320.00
1499.00	2998.00	834.00	1668.00	674.50	1349.00	700.00	1400.00
4999.00	29994.00	5800.00	34800.00	10000.00	60000.00	12500.00	75000.00
199.00	11940.00	185.00	11100.00	300.00	18000.00	200.00	12000.00
1999.00	29985.00	1200.00	18000.00	2500.00	37500.00	1000.00	15000.00
75999.00	151998.00	129000.00	258000.00	73000.00	146000.00	98000.00	196000.00
4999.00	9998.00	42500.00	85000.00	37250.00	74500.00	38000.00	76000.00

4200.00	INDUSTRIAL ELECTRICALS AND CONTROLS, Standard Airconditioning and Refrigeration Engineers
875.00	VOLKS ENERGIE PVT LTD
398.00	CHENNAI ENGINEERING SERVICES
5900.00	CHENNAI ENGINEERING SERVICES
261000.00	Standard Airconditioning and Refrigeration Engineers
8000.00	INDUSTRIAL ELECTRICALS AND CONTROLS
4320.00	VOLKS ENERGIE PVT LTD
1349.00	INDUSTRIAL ELECTRICALS AND CONTROLS
29994.00	CHENNAI ENGINEERING SERVICES
11100.00	Standard Airconditioning and Refrigeration Engineers
15000.00	VOLKS ENERGIE PVT LTD
146000.00	INDUSTRIAL ELECTRICALS AND CONTROLS
9998.00	CHENNAI ENGINEERING SERVICES

30.00	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.	40.00	Mtr
31.00	Supply of 2.0 Ton Split type 5 Star Inverter Air-conditioner unit (Rated cooling capacity 6000 Kcal/hr) conforming to IS: 1391 (Part-2) fitted with hermetically sealed rotary compressor operating on Eco Friendly refrigerant suitable for operation on 230 V, 50Hz, single phase, AC supply capable of performing the functions as cooling, dehumidifying, air circulating and filtering 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 outdoor unit as per standard manufacturer design (i.e., up to 3 mtrs) including the drain pipes, first charge of refrigerant etc as required. (As per list of approved makes).	9.00	Each
32.00	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 outdoor unit as per standard manufacturer design (i.e., 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) 3C 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) .	6.00	Each
33.00	Supply and Installation of following copper pipe for suction and delivery line with all accessories suitable for 1-phase, 1.5TR/2.0TR 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)	30.00	Each
34.00	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.	15.00	Each
35.00	Supply and Installation of following size PVC pipe for drain line with all accessories, etc. as required. a) 20 mm dia (for 1.5TR/2.0 split AC)	30.00	Mtr

499.00	19960.00	960.00	38400.00	450.00	18000.00	1000.00	40000.00
44999.00	404991.00	63500.00	571500.00	51000.00	459000.00	47500.00	427500.00
36749.00	220494.00	51500.00	309000.00	40000.00	240000.00	40000.00	240000.00
1199.00	35970.00	1100.00	33000.00	100.00	3000.00	1200.00	36000.00
1999.00	29985.00	2500.00	37500.00	3000.00	45000.00	2200.00	33000.00
129.00	3870.00	80.00	2400.00	100.00	3000.00	124.00	3720.00

18000.00	INDUSTRIAL ELECTRICALS AND CONTROLS
404991.00	CHENNAI ENGINEERING SERVICES
220494.00	CHENNAI ENGINEERING SERVICES
3000.00	INDUSTRIAL ELECTRICALS AND CONTROLS
29985.00	CHENNAI ENGINEERING SERVICES
2400.00	Standard Airconditioning and Refrigeration Engineers

Total in Figures

2043370.00

2039380.00

1989999.00

1945800.00

Lowest Amount Quoted BY: VOLKS ENERGIE PVT LTD(1945800.00)

BOQ Summary Details

Tender Title: Replacement of ILS at Begumpet Airport, Hyderabad. Sub Head- Provision of Electrical works including AC units etc.

Tender ID: 2020_AAI_48476_1

Sheet Name	Sl.No	Bidder Name	Amount	Bid Rank
BoQ1	1	VOLKS ENERGIE PVT LTD	1945800.00	L1
	2	INDUSTRIAL ELECTRICALS AND CONTROLS	1989999.00	L2
	3	Standard Airconditioning and Refrigeration Engineers	2039380.00	L3
	4	CHENNAI ENGINEERING SERVICES	2043370.00	L4

Signature Not Verified

Digitally signed by CHINTALA
VENKATESWARA RAO

Date: 2020.06.23 12:33:30 IST

Location: eProcurement System for Central
PSUs