

COMPARATIVE STATEMENT

Name of work : SITC of UPS System for Ground Lighting Facilities and Terminal building at Rajahmundry Airport.

S. No.	Description of Items	Qty.	Unit	JUSTIFIED COST		M/s. ECS Engineering Private Limited, Ghaziabad (1/2)		M/s. Awasthi Electric Works, Kanpur (2/2)	
				Rate (₹)	Amount(₹)	Rate (₹)	Amount(₹)	Rate (₹)	Amount(₹)
1	Design, Fabrication,Supply, Installation, Testing and Commisioning of 3 Phase, 50 Hz Online UPS sytem of 2x160 KVA capacity, 3-phase input, 3 phase output online UPS with double conversion IGBT technology with suitable rated isolation transformer to drive constant current regulators, Suitable for 100% unbalanced load, built in automatic static by pass, active input power factor correction, phase sequence corrector, pure sine wave output, input/output isolation, compatibility with generator supply, cold start capability, EMI/RFI noise filter, advanced communication- RS232 port and user friendly LCD display, suitable to operate at 415V, 50Hz, 3 phase AC supply and capable to load 2 phase & single phase loads on 3phase output with 100% unbalanced and necessary safety protections, operated in parallel rudundancy configuration in dust and vermin proof cubicle panel duly painted and with ventillation ducts, forced air cooling, floor mounted comprising of supply and connecting required/suitable size & number of 12 V VRLA SMF batteries shall have backup time of minimum 30 minutes per each UPS along with battery rack, arranged in racks with terminals, intercell connectors, DC cables with insulated copper conductor of required size as per site condition , Power cables among UPSs, UPS input Panel & UPS output Panel with armoured, insulated copper conductor of required size as per site condition and all accessories and capable of	1	Set	5394800.00	5394800.00	3773000.00	3773000.00	4345000.00	4345000.00
2	Design, Fabrication,Supply, Installation, Testing and Commisioning of 415V, 50Hz, 3 phase AC Online UPS sytem of 10 KVA capacity , suitable for operating unbalanced loads also, in dust and vermin proof cubicle panel duly painted and with ventillation ducts, floor mounted comprising of 12V VRLA SMF batteries shall have backup time of minimum 15 minutes, arranged in racks with terminals, intercell connectors, DC cables, interconnecting cables between battery rack and UPS of required size as per site condition and all accessories, forced air cooling and capable of giving desired output with all contorls and protective circuits and conforming to etc. complete as required.	1	Set	288660.00	288660.00	160000.00	160000.00	310000.00	310000.00
3	Supply, Installation, Testing & Commissioning of 400A, 36KA, 4P MCCB with Thermal Magnetic release with O/C & S/C protection, with extended operating handle, RYB phase indicating lamps controlled by MCBs, ON & OFF indication lamps housed in a suitable wall mounting type sheet steel enclosure made of 14 SWG CRCA sheet with powder coated, suitable space to accommodate 3.5C x 400 Sq.mm Aluminium Cable end terminations and suitable to receive 3.5 C x 400 Sq.mm Cable by providing spreaders/bushbars with sufficient clearance at either side of MCCB (i.e., bottom & Top)	2	Job	40392.00	80784.00	46000.00	92000.00	28000.00	56000.00

S. No.	Description of Items	Qty.	Unit	JUSTIFIED COST		M/s. ECS Engineering Private Limited, Ghaziabad (1/2)		M/s. Awasthi Electric Works, Kanpur (2/2)	
4	Design, fabrication, assembling, supply, installation, testing and commissioning of cubicle type - UPS Output LT panel floor mounted, free standing suitable for 415 V 3 phase, 4 wire 50 Hz AC supply system fabricated in compartmentalised design from CRCA sheet steel of 2 mm thick for frame work IP 42 and covers, 3 mm thick for gland plates i/c cleaning and finishing complete 7 tank process for powder coating in approved shade, extendable type TPN aluminium alloy busbars of high conductivity, extended rotary handles, DMC/SMC busbar supports, with bottom base channel of MS section not less than 100mm X 50 mm X 5 mm thick, entire panel shall have a common copper earthbar of size 25mm X 5 mm at the rear with 2 Nos. earth studs, solid connection from main busbar to switchgears with require size of aluminium busbar & control wiring with FRLS insulated copper conductor cable, cable alleys, cable gland plates i/c accessories as per specification and providing switchgears, metering instruments etc. as per specifications. (A) INCOMER a) 2 Nos. 400 Amp, 36KA, 4P Moulded Case Circuit Breaker with Thermal Magnetic release with O/C and S/C protection and extended ROM b) 2 Nos. digital multifunction meter, Class 1.0, LCD type including suitable rating CTs for 3 phase, 4 wire operation. c) 2 Set of RYB phase indicating lamps controlled by MCBs. d) 2 Nos. of ON/OFF/TRIP Indication lamps. (B) BUSBARS 600 Amp TPN busbars of high conductivity electrolytic quality aluminium alloy. (C) OUTGOING a) 2 Nos. 400 Amp, 36KA, 4P Moulded Case Circuit Breaker with Thermal Magnetic release with O/C and S/C protection and extended ROM. b) 2 Nos. of ON/OFF/TRIP Indication lamps.	1	Job	201960.00	201960.00	210000.00	210000.00	245000.00	245000.00
5	Supplying and making end termination with brass single compression gland and aluminium lugs for following sizes of PVC/XLPE insulated PVC sheathed aluminium conductor cable of 1.1 KV grade as required 3.5 x 25 sq.mm	6	Sets	209.00	1254.00	282.00	1692.00	250.00	1500.00

S. No.	Description of Items	Qty.	Unit	JUSTIFIED COST		M/s. ECS Engineering Private Limited, Ghaziabad (1/2)		M/s. Awasthi Electric Works, Kanpur (2/2)	
6	Supplying and making end termination with brass single compression gland and aluminium lugs for following sizes of PVC/XLPE insulated PVC sheathed aluminium conductor cable of 1.1 KV grade as required 3.5 x 35 sq.mm	8	Sets	250.00	2000.00	310.00	2480.00	250.00	2000.00
7	Supplying and making end termination with brass single compression gland and aluminium lugs for following sizes of PVC/XLPE insulated PVC sheathed aluminium conductor cable of 1.1 KV grade as required 3.5 x 120 sq.mm	2	Sets	425.00	850.00	712.00	1424.00	550.00	1100.00
8	Supplying and making end termination with brass single compression gland and aluminium lugs for following sizes of PVC/XLPE insulated PVC sheathed aluminium conductor cable of 1.1 KV grade as required 3.5 x 400 sq.mm	6	Sets	1132.00	6792.00	1770.00	10620.00	950.00	5700.00
9	Laying of one no. PVC/XLPE insulated PVC sheathed armoured Aluminium conductor power cable of 1.1 KV grade of size from 25 sq. mm and upto 50 sq. mm. as required. On surface	14	Mtrs	30.00	420.00	50.00	700.00	40.00	560.00
10	Laying of one no. PVC/XLPE insulated PVC sheathed armoured Aluminium conductor power cable of 1.1 KV grade of size from 25 sq. mm and upto 50 sq. mm. as required. In the existing RCC Trench/Hume Pipe/Stone ware/Metal pipe/Masonry open duct	154	Mtrs	22.00	3388.00	50.00	7700.00	40.00	6160.00
11	Laying of one no. PVC/XLPE insulated PVC sheathed armoured Aluminium conductor power cable of 1.1 KV grade of size above 95 Sq.mm and upto 185 sq.mm as required. On surface	2	Mtrs	97.00	194.00	70.00	140.00	60.00	120.00
12	Laying of one no. PVC/XLPE insulated PVC sheathed armoured Aluminium conductor power cable of 1.1 KV grade of size above 95 Sq.mm and upto 185 sq.mm as required. In the existing RCC Trench/Hume Pipe/Stone ware/Metal pipe/Masonry open duct	24	Mtrs	44.00	1056.00	80.00	1920.00	50.00	1200.00
13	Laying of one no. PVC/XLPE insulated PVC sheathed armoured Aluminium conductor power cable of 1.1 KV grade of size above 185 sqmm upto 400 sqmm as required. On surface	6	Mtrs	138.00	828.00	80.00	480.00	80.00	480.00
14	Laying of one no. PVC/XLPE insulated PVC sheathed armoured Aluminium conductor power cable of 1.1 KV grade of size above 185 sqmm upto 400 sqmm as required. In the existing RCC Trench/Hume Pipe/Stone ware/Metal pipe/Masonry open duct	130	Mtrs	77.00	10010.00	100.00	13000.00	50.00	6500.00
15	Supply & laying of 6 SWG GI earth wire along the cable length etc. complete as required	330	Mtrs	34.00	11220.00	30.00	9900.00	20.00	6600.00

S. No.	Description of Items	Qty.	Unit	JUSTIFIED COST		M/s. ECS Engineering Private Limited, Ghaziabad (1/2)		M/s. Awasthi Electric Works, Kanpur (2/2)	
16	Earthing with GI 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. (but without charcoal or coke and salt) as required.	2	Sets	4244.00	8488.00	6000.00	12000.00	5500.00	11000.00
17	Providing and fixing 25 mm x 5 mm GI strip on surface or in recess for connections with clamping etc as required.	60	Mtrs	175.00	10500.00	145.00	8700.00	160.00	9600.00
18	Providing and fixing 25 mm X 5 mm GI strip in 40 mm dia GI pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	12	Mtrs	448.00	5376.00	350.00	4200.00	380.00	4560.00
19	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. (but without charcoal or coke and salt) as required.	2	Sets	9318.00	18636.00	12000.00	24000.00	11000.00	22000.00
20	Providing and fixing 25 mm x 5 mm Copper strip on surface or in recess for connections with clamping etc as required.	30	Mtrs	890.00	26700.00	793.00	23790.00	1000.00	30000.00
21	Providing and fixing 25 mm X 5 mm Copper strip in 40 mm dia GI pipe from earth electrode including connection with G.I. nut, bolt, spring, washer excavation and re-filling etc. as required.	12	Mtrs	1107.00	13284.00	993.00	11916.00	1200.00	14400.00
22	Extra for using salt and charcoal for G.I and Copper plate earth electrode as required.	4	Sets	957.00	3828.00	4000.00	16000.00	250.00	1000.00
23	Supply and Fixing of nominal 2.0 mm (Width 1 Mtr) thick PVC synthetic, electric insulated mats conforming to IS 15652-2006 along with suitable adhesive/ chemibond, i/c providing water proofing of floor, (chipping of floor if required) sealing of all joints etc., as required.	60	Sq.mtr	2155.00	129300.00	1200.00	72000.00	800.00	48000.00
24	Wiring for circuit/sub-main/Power plug alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core in surface/recessed Steel conduit as required. 2 x 2.5 Sq..mm. + 1 x 2.5 sq. mm. earth wire	200	Mtrs	299.00	59800.00	282.00	56400.00	85.00	17000.00

6280128.00	4514062.00	5145480.00
6280128.00	4514062.00	5145480.00

%ge w.r.t. Justified cost
Status

-28.12%
Below
L1

-18.07%
Below
L2

Certified that I have personally conducted check of all tenders duly computed & Checked and satisfied my self that the checking work has been properly done and the rates quoted by the contractors totals are carried over correctly in the comparative statement.

Jr. Executive (Engg-E)
AAI, Rajahmundry Airport

Manager, Signatory
AAI, Rajahmundry Airport

Signature Not Verified

Digitally signed by MUTHUKUMARASAMY MUTHAMILAN
Date: 2021.01.19 10:42:03 IST
Location: eProcurement System for Central PSUs

A.G.M.(Engg-Elect)
AAI, Rajahmundry Airport

