

AIRPORTS AUTHORITY OF INDIA
TRIVANDRUM INTERNATIONAL AIRPORT
SCHEDULE OF QUANTITIES
COMPARITIVE STATEMENT

Name of Work : Modification of Residential Quarters for Temporary JVMU Office at Trivandrum International Airport. SH: Electrical Works

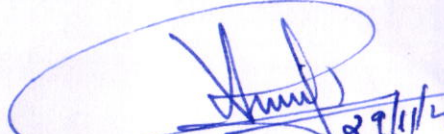
Sl. No.	Description	Unit	Qty	Justified cost		M/s. Chennai Engineering Services		M/s. Linsta Services	
				Rate	Amount	Rate	Amount	Rate	Amount
A	WIRING								
1	Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing including termination with copper thimbles of suitable size etc. as required.	Metre	200	327.00	65400.00	199.00	39800.00	210.00	42000
2	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit including termination with copper thimbles of suitable size etc. as required.								
2.1	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	25	327.00	8175.00	199.00	4975.00	210.00	5250
2.2	2 X 6 sq. mm + 1 X 6 sq. mm earth wire		5	442.00	2210.00	249.00	1245.00	300.00	1500
2.3	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	Metre	25	553.00	13825.00	249.00	6225.00	420.00	10500
2.4	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Metre	5	788.00	3940.00	499.00	2495.00	500.00	2500
3	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit including termination with copper thimbles of suitable size etc. as required.								
3.1	3 x 1.5 sq. mm	Metre	100	101.00	10100.00	99.00	9900.00	85.00	8500
3.2	3 x 2.5 sq. mm	Metre	225	152.00	34200.00	149.00	33525.00	110.00	24750
3.3	6 x 2.5 sq. mm	Metre	100	296.00	29600.00	299.00	29900.00	200.00	20000
4	Supplying of 3 x 1.5 Sq.mm PVC insulated flexible FR copper cable, in the existing PVC conduit/HDPE pipe including termination with copper thimbles of suitable size etc. as required.	Metre	30	81.00	2430.00	149.00	4470.00	170.00	5100
5	Supplying and fixing of 25 mm medium class PVC conduit along with accessories in surface/recess including providing junction boxes at all diversion/bends etc. cutting the wall and making good the same in case of recessed conduit etc. as required.	Metre	420	124.00	52080.00	79.00	33180.00	100.00	42000
6	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.								
6.1	5/6 A switch	Each	12	80.00	960.00	149.00	1788.00	110.00	1320
6.2	15/16 A switch	Each	15	118.00	1770.00	199.00	2985.00	150.00	2250

Sl. No.	Description	Unit	Qty	Justified cost		M/s. Chennai Engineering Services		M/s. Linsta Services	
				Rate	Amount	Rate	Amount	Rate	Amount
		Each	12	106.00	1272.00	199.00	2388.00	140.00	1680
6.3	3 pin 5/6 A socket outlet	Each	15	167.00	2505.00	249.00	3735.00	200.00	3000
6.4	6 pin 15/16 A socket outlet	Each	12	112.00	1344.00	499.00	5988.00	200.00	2400
6.5	Telephone socket outlet	Each	2	104.00	208.00	249.00	498.00	110.00	220
6.6	Bell push	Each	6	34.00	204.00	19.00	114.00	30.00	180
7	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	6						
8	Supplying and fixing following size/ modules, PVC box along with modular base & cover plate for modular switches in recess etc. as required.	Each	39	240.00	9360.00	449.00	17511.00	220.00	8580
8.1	2 Module	Each	15	267.00	4005.00	549.00	8235.00	250.00	3750
8.2	3 Module								21600
9	Supplying and fixing suitable size PVC box with modular plate and cover in front on surface or in recess, including providing and fixing 3 Nos 3 pin 5/6 amps modular socket outlet and controlled by 2 No. 5/6 amps modular switch, connection, etc. as required.	Each	24	737.00	17688.00	999.00	23976.00	900.00	
B	MCCB, MCB & DB's								2500
10	Supplying and fixing 12 way, Double door, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Each	1	2572.00	2572.00	4999.00	4999.00	2500.00	
11	Supplying and fixing 4 way(8+12), Double door, Horizontal Type Three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Each	1	4083.00	4083.00	9999.00	9999.00	4500.00	4500
12	Supplying and fixing of 63 Amps 4 Way, sheet steel, Bus Bar Chamber, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, powder painted including earthing etc. as required. (Havells Optima series or equivalent)	Each	2	7794.00	15588.00	9999.00	19998.00	9500.00	19000
13	Supplying and fixing 5 A to 32 A rating, 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.	Each	14	283.00	3962.00	219.00	3066.00	250.00	3500
13.1	single pole, 240V, 10 kA,	Each	1	688.00	688.00	449.00	449.00	780.00	780
13.2	Double pole, 240V, 10 kA,	Each	1	1604.00	1604.00	1999.00	1999.00	1800.00	1800
13.3	Four Pole, 415 V, 10 kA,							30.00	300
14	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	10	19.00	190.00	29.00	290.00		

Sl. No.	Description	Unit	Qty	Justified cost		M/s. Chennai Engineering Services		M/s. Linsta Services	
				Rate	Amount	Rate	Amount	Rate	Amount
C	LIGHT AND FAN FITTINGS								
15	Supply of surface mounted LED 2 ft batten with extruded powder coated aluminium channel with polycarbonate diffusers. Lighting system comprising of LED of approved make . It has a system level lumen of minimum 900 lumens with luminaire efficacy of not less than 95 lm/W current output driver, operating range 140V – 270V, 50Hz AC supply, CCT of 5700K - 6500K with PF>0.90 and THD must be <10% .The luminaire is IP 20 protected	Each	7	271.00	1897.00	1999.00	13993.00	750.00	5250
16	Supply of surface mounted LED 4 ft batten with extruded powder coated aluminium channel with polycarbonate diffusers. Lighting system comprising of LED of approved make . It has a system level lumen of minimum 1800 lumens with luminaire efficacy of not less than 95 lm/W current output driver, operating range 140V – 270V, 50Hz AC supply, CCT of 5700K - 6500K with PF>0.90 and THD must be <10% .The luminaire is IP 20 protected	Each	32	355.00	11360.00	2499.00	79968.00	800.00	25600
17	Supply of LED Street light luminaires with pressure die-cast aluminium housing with Polycarbonate cover and lense embedded PC. Lighting system comprising of LED of approved make . It has a system level lumen of minimum 2300 lumens with luminaire efficacy of not less than 95 lm/W current output driver, operating range 140V – 270V, 50Hz AC supply, CCT of 5700K - 6500K with PF>0.90 and THD must be <10% .The luminaire is IP 65 or above protected	Each	9	1363.00	12267.00	14999.00	134991.00	1900.00	17100
18	Supply of LED Post Top luminaires with pressure die-cast aluminium housing comprising of LED of approved make . It has a system level lumen of minimum 2250 lumens with luminaire efficacy of not less than 85 lm/W current output driver, operating range 140V – 270V, 50Hz AC supply, CCT of 5700K - 6500K with PF>0.90 .The luminaire is IP 65 or above protected	Each	2	12022.00	24044.00	14999.00	29998.00	9500.00	19000
19	Installation, testing and commissioning of 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.	Each	36	157.00	5652.00	199.00	7164.00	200.00	7200

Sl. No.	Description	Unit	Qty	Justified cost		M/s. Chennai Engineering Services		M/s. Linsta Services	
				Rate	Amount	Rate	Amount	Rate	Amount
D	CABLE AND HDPE LAYING								
20	laying of HDPE pipe of all sizes and types complete with all accessories like socket, bend couplers etc, cutting, jointing etc..direct in ground (80 cm below ground level and 1.0 Mtr below pavement wherever road crossing/proposed road crossing) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., complete as required.	Metre	30	101.00	3030.00	299.00	8970.00	400.00	12000
21	Laying of 3 x 1.5 Sq.mm Flexible copper conductor of 1.1kV grade of following size in the existing RCC/ HUME/METAL pipe/HDPE pipe/CULVERT/STONE WARE including termination with copper lugs at termination points, etc as required.	Metre	30	32.00	960.00	39.00	1170.00	50.00	1500
E	SPLIT AIR CONDITIONERS & WATER COOLERS								
22	Supply of 1.0 Ton single phase 5 star Inverter Split type Air conditioner of High wall mounting type consisting of non-ductable single room evaporator unit (copper coil) with cordless remote control and one number outdoor condenser unit comprising of sealed compressor and copper conductor tube conforming to IS 1391 (part -2) with up to date amendments suitable for operation on 230V, 50Hz. AC supply capable of performing (a) cooling (b) dehumidifying (c) Air -Circulating (d) filtering, comprising of the following including first charge of refrigerant as required. The unit shall be Auto-restart type without changing of existing setting etc. (i) 1" PVC drain pipe or as per OEM Specification (ii) 1/4" dia insulated copper pipe for liquid line or as per OEM Specification (iii) 1/2" insulated copper pipe for suction or as per OEM Specification (iv) 3Core x 4 sq.mm PVC insulated, PVC sheathed unarmoured multi strand copper cable or as per OEM Specification (v) Rigid PVC pipe / PVC Trunking of suitable size for covering the refrigerant line & drain line in (i), (ii), (iii) and (iv) above (vi) Angle Iron Stand for Outdoor unit (Rate quoted shall be inclusive of standard interconnection copper pipe lines, cabling of maximum 3 meters)	Each	2	26702.00	53404.00	64999.00	129998.00	51500.00	103000
23	Installation, testing and commissioning of 5 star single phase 1.0 Ton split air conditioner of high wall mounting type including fixing the condenser on a raised stand or suitable outdoor wall mounted stands with suitable iron angle/structure duly painted as per site requirement and fixing of evaporator unit including providing and making inter connections between evaporator unit and condenser unit up to a length of 3 mtrs etc. as required.	Each	2	1335.00	2670.00	4999.00	9998.00	3500.00	7000

Sl. No.	Description	Unit	Qty	Justified cost		M/s. Chennai Engineering Services		M/s. Linsta Services	
				Rate	Amount	Rate	Amount	Rate	Amount
24	Supply and Fixing of following for interconnections between evaporator unit and condensing unit (extra length), as required for 1.0 ton Split type AC units i) 1" Drain pipe PVC pipe or as per OEM Specification ii) 1/4" dia insulated copper pipe for liquid line or as per OEM Specification iii) 1/2" insulated copper pipe for suction or as per OEM Specification iv) PVC insulated, PVC sheathed unarmoured multi strand copper cable as per OEM Specification v) Rigid PVC Trunking of suitable size for covering the refrigerant line & drain line in (i), (ii), (iii) and (iv) above. The drain line shall be in PVC trunking inside the rooms and for outside, it shall be neatly clamped till plinth with U trap.	Metre	5	2302.00	11510.00	1499.00	7495.00	1350.00	6750
25	Supply of 4 KVA Voltage stabilizer wall mounting type suitable for 1.0 ton split / window A/C units with in put volt range 170V to 270 V & output 220 +10% etc., as required	Each	2	1907.00	3814.00	3499.00	6998.00	3500.00	7000
26	Supply of Water purifier cum Dispenser unit with 3 faucets for Normal. Hot and Cold water output with minimum 20 Ltr storage for normal, 4 Ltrs storage for Hot and 20 Ltrs storage for Cold with Sainless steel body including UV purification suitable to operate at 230V, 50 Hrs AC supply.(Conway P100 NHC or equivalent)	Each	2	52326.00	104652.00	74999.00	149998.00	31500.00	63000
Total of SH: A to E				525223.00			854474.00		513860.00
Labour cess @1%				5252.23		Cess included		Cess included	
Total i/c Labour cess				530475.00			854474.00		513860.00
% Above or below (without GST)						61% above		3.13 % below	
Position						L2		L1	


 Asst. General Manager Engg(E)

Signature Not Verified

Digitally signed by ROJI RAVINDRAN
 Date: 2021.12.13 14:18:53 IST
 Location: eProcurement System for Central PSUs

