



आइ. एस. ओ प्रमाणित एयरपोर्ट
ISO CERTIFIED AIRPORT

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

No.AAI/TRV/ENGG(E)-II/12/2020-21/ 10

25th May,2020.

To,
M/s. Chennai Engineering Services,
Plot No.30, Door No.1-536,
Krishna Nagar,
1st Street, Manapakkam
Chennai – 600 125.

Name of work **R & M of Electrical works at NITB, Trivandrum International Airport. SH: Operation and Maintenance Contract of E &M installation for the period 2020 -22.**

Ref : (1) Your Bid for e-Tender No.2020_AAI_43651_1.

Dear Sir,

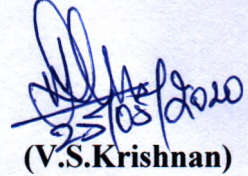
1. Your tender for the work mentioned above is hereby accepted on behalf of the Chairman, Airports Authority of India, at the item rates quoted by you totaling to **Rs.3,07,16,405/- (Rupees Three crore Seven Lakhs Sixteen Thousand Four Hundred and Five only) excluding GST, EPF, ESI & Bonus** which is 10.01% (Ten point zero one percent) below the justified cost of Rs.3,41,33,853.00 excluding GST put to tender.
2. Jt. General Manager Engg(E)-I, Airports Authority of India, Trivandrum International Airport, Thiruvananthapuram-695 008 shall be the Engineer-in-Charge of the work. You are requested to attend the office of the Jt. General Manager Engg(E)-I, Airports Authority of India, Trivandrum International Airport, Thiruvananthapuram by **10/06/2020** to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs.200/- (Rupees Two Hundred only)** and the cost of the stamp paper shall be borne by you.
3. Please deposit **Rs.23,88,964/- (Rupees Twenty Three Lakhs Eighty Eight Thousands Nine Hundred and Sixty Four Only)** towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted as per condition of Clause 1A on page 12 of the contract document.
4. You are requested to comply with the Provisions of Contract Labour (Regulation and Abolition) Act 1970 and Contract Labour (Regulation and Abolition) Central Rules 1971 and Minimum wages Act and Rules thereof Central and State Governments.
5. You are also directed to contact Asst. General Manager (Engg.-Electrical), EMD-II, immediately who will arrange to hand over the site to you.
6. Please note that the period for carrying out the work shall be 24 (Twenty Four) months w.e.f. **01/06/2020**.

7. Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-Charge.
8. Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after signing it to the undersigned as a token of acceptance.

All other terms and conditions shall be as per NIT.

Encl: Schedule of Quantities.

Yours faithfully,



(V.S.Krishnan)

*Jt. General Manager (Engg. – Electrical)-I
for and on behalf of the Chairman,*

Airports Authority of India

V. S. KRISHNAN

संयुक्त महा प्रबंधक (इंजी-विद्युत)
JOINT GENERAL MANAGER (Engg-Elect)

भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

त्रिवेन्द्रम अंतरराष्ट्रीय हवाई अड्डा
TRIVANDRUM INTERNATIONAL AIRPORT
तिरुवनंतपुरम / THIRUVANANTHAPURAM-695 008

AIRPORTS AUTHORITY OF INDIA
TRIVANDRUM INTERNATIONAL AIRPORT : THIRUVANANTHAPURAM- 695 008

ENGINEERING ELECTRICAL DIVISION -II

SCHEDULE OF WORK

Name of work : R&M of Electrical Works at NITB, Trivandrum International Airport during 2020-21 & 2021-22.

SH : Operation & Maintenance Contract of E&M Installations

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
SH-I: Operation & Maintenance Contract of E&M Installations.					
1	Operation and maintenance of Power supply HT & LT installations, Standby DG Sets, Internal & External electrical & mechanical installations, Water supply pumps, Fire Hydrant & Sprinkler pumps, Sewerage Pumps, Escalators and Elevators etc., by deploying required qualified manpower as specified in the specifications for operation, monitoring, recording performance log books, carrying out preventive maintenance activities & maintaining records, attending breakdown complaints and minor repair works on round the clock basis i/c. Sundays and Holidays etc. complete as required.	24	Month	944189.00	22660536.00
2	Painting of Arrival & Departure conveyor systems as directed by Engineer incharge at International Terminal Building with two coats of polyurethane paint of approved make, colour, quality, shade including scrapping, cleaning the surface etc. complete as required.	1800	SqMtr	309.00	556200.00
3	Painting of octagonal Street Light poles 12 Mtr height (Aproximate 3 Sq Mtr) as directed by Engineer incharge at International Terminal Building with two coats of polyurethane paint and one coat of epoxy primer of approved make, colour, quality, shade including scrapping, cleaning the surface, arranging suitable scaffolding/ladder etc. complete as required.	180	Job	1859.00	334620.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
4	Painting of Passenger Boarding Bridges of (Surface area 415SqMtr) as directed by Engineer incharge at International Terminal Building with two coats of polyurethane paint of approved make, colour, quality, shade including scrapping, cleaning the surface, arranging suitable scaffolding/ladder etc. complete as required.	4	Job	162999.00	651996.00
5	Painting of HT Panels and LT panels such as APFC panels, MOCB panels, MBD/SMDB panels, AMF panels, battery charger panels, Distribution Boards, Outdoor Feeder Pillars, Transformers, DG sets, diesel tanks, fuel pipes, DG Set support frames, bus bar duct, pumps, motors & its supporting frame , pump panel, conveyor side covers, earth pits, etc with two coats of Synthetic enamel paint of approved make colour, quality including scrapping, cleaning etc. as required.	1500	SqMtr	199.00	298500.00
6	Applying one coat of ready mixed red oxide zinc chromate primer of approved brand and manufacture including scrapping and cleaning of surface etc. complete as required.	300	SqMtr	169.00	50700.00
7	Lettering with synthetic enamel paint of approved quality and brand with stencil of suitable letter size (Height of letter 4 cm to 6 cm) and spacing as per the direction of Engineer-in-charge at various panels / equipments etc as reqd. (Lettering of a single Alphabet/Number/Symbol is considered as 1 Letter)	1500	Letter	13.99	20985.00
8	Stickering of DB's/panels with vinyl sticker of approved shade including labelling with alphabets cut out from vinyl sheets.	20	SqMtr	389.00	7780.00
9	Filtration of transformer oil at international power house of Trivandrum Airport with not less than two circulation of oil and testing of oil after filtration so as to achieve a break down value of not less than 60 KV for a minute as per IS:1866/IS:6792-1972 with upto date amendments i/c hiring and transporting charges for filtration equipment, test kit submission of test report, etc. as required. Transformer Capacity : 1.6MVA, Oil Capacity (Ltrs) : 1094 Make : Kirloskar	10	Each	6499.00	64990.00
10	Supply of silica gel blue for breather units of transformers as required	20	Kg	299.00	5980.00

SL.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
11	Supply of Transformer Oil conforming to IS:335 to be supplied in non-returnable barrel	210	Litre	119.00	24990.00
12	Testing, Calibration and submission of report of following type of LT Relays at site.				
12.01	Over Current Relay L&T make MC61, 3 Element	20	Each	649.00	12980.00
12.02	Over Current Relay Schneider make SEPAM 4 Element	10	Each	649.00	6490.00
12.03	REF Relay ABB make, model Irxm	10	Each	549.00	5490.00
12.04	Earth Fault Relay single element ABB make	10	Each	249.00	2490.00
12.05	Earth Fault Relay single element AREVA make, model CAG	10	Each	249.00	2490.00
12.06	Synchronising relay SKE single element AREVA	2	Each	449.00	898.00
12.07	Auxillary relay VAA single element, AREVA	2	Each	199.00	398.00
12.08	No voltage relay VAG single element, ALSTOM	2	Each	199.00	398.00
13	Testing, Calibration and submission of report of following type of relays installed at 11kv HT panels.				
13.01	Over current Relay 4 Element AREVA make, model P127	4	Each	749.00	2996.00
13.02	Over Current Relay 4 Element AREVA make, model P122	10	Each	749.00	7490.00
13.03	Auxillary relay VAA 3 element AREVA make	20	Each	249.00	4980.00
13.04	Trip circuit relay VAX 3 element AREVA make	14	Each	149.00	2086.00
13.05	Master trip relay VAJ single element AREVA make	14	Each	149.00	2086.00
13.06	Earth Fault Relay CAG single element AREVA	4	Each	199.00	796.00
13.07	Earth Fault Relay CDG single element AREVA(Inverse)	4	Each	199.00	796.00
14	Servicing of Kirloskar Make 156 HP Diesel engine including carrying out B-check through OEM authorised service dealer complete as required.	8	Job	8999.00	71992.00
15	Supplying and laying of 63mm Outer dia HDPE pipe of PE-63, PN 2.5 grade conforming to IS 4984 including accessories direct in ground (75 cm below ground level) including excavation and refilling the trench after laying but excluding sand cushioning and protective covering etc., complete as required.	200	Mtr	199.00	39800.00
16	Providing, laying and fixing 50 mm dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required	60	Mtr	449.00	26940.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
17	Excavation of existing Bituminous/ Concrete road to facilitate laying of metal pipe including disposal of Material within 50 mtrs lead and providing & laying in position cement concrete 1:2:4 (1 cement : 2 Coarse sand : 4 Graded stone aggregated of 20 mm nominal size) all works up to plinth level to fill up the excavated trenches after laying of the metal pipe complete above etc. as required.	8	CuMtr	6499.00	51992.00
18	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 pipe as required.				
18.01	Above 95 sq. mm and upto 185 sq. mm	150	Mtr	39.00	5850.00
18.02	Above 185 sq. mm and upto 400 sq. mm	100	Mtr	59.00	5900.00
19	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 reqd.				
19.01	Above 95 sq. mm and upto 185 sq. mm	50	Mtr	29.00	1450.00
19.02	Above 185 sq. mm and upto 400 sq. mm	70	Mtr	49.00	3430.00
20	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 reqd.				
20.01	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	100	Mtr	89.00	8900.00
20.02	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	100	Mtr	119.00	11900.00
21	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.				
21.01	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	200	Mtr	69.00	13800.00
21.02	Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	200	Mtr	109.00	21800.00
22	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	500	Mtr	19.00	9500.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
23	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
23.01	3.5 X 50 sq. mm (35mm)	8	Set	299.00	2392.00
23.02	3.5 X 70 sq. mm (38mm)	8	Set	349.00	2792.00
23.03	3.5 X 95 sq. mm (45mm)	8	Set	449.00	3592.00
23.04	3.5 X 120 sq. mm (45mm)	8	Set	469.00	3752.00
23.05	3.5 X 185 sq. mm (57mm)	6	Set	599.00	3594.00
23.06	3.5 X 240 sq. mm (63mm)	4	Set	799.00	3196.00
23.07	3.5 X 300 sq. mm (70mm)	4	Set	999.00	3996.00
23.08	3.5 X 400 sq. mm (82mm)	4	Set	1099.00	4396.00
24	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing Material for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
24.01	4 X 16 sq. mm	10	Job	1999.00	19990.00
24.02	3.5 X 25 sq. mm	4	Job	1999.00	7996.00
24.03	3.5 X 35 sq. mm	4	Job	1999.00	7996.00
24.04	3.5 X 50 sq. mm	4	Job	1999.00	7996.00
24.05	3.5 X 70 sq. mm	2	Job	1999.00	3998.00
24.06	3.5 X 95 sq. mm	2	Job	1999.00	3998.00
24.07	3.5 X 120 sq. mm	2	Job	1999.00	3998.00
24.08	3.5 X 185 sq. mm	2	Job	2899.00	5798.00
24.09	3.5 X 240 sq. mm	2	Job	3649.00	7298.00
24.10	3.5 X 300 sq. mm	3	Job	3749.00	11247.00
24.11	3.5 X 400 sq. mm	3	Job	3749.00	11247.00
25	Hire charges for Providing Coloured LED Serial lighting 3000 sets (01 Set shall consist of 50 Nos. LED lamps) for decorating International terminal fascia/ garden areas including wire coils, with or without chaiser, Labour charges at Trivandrum International Airport on special occations.				
25.01	For two Day	10	Job	159999.00	1599990.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
25.02	For every additional Day	30	Day	67999.00	2039970.00
26	Hire charges per day for Providing Coloured LED 100W RGB for decorating International terminal fascia/ garden areas including wire coils, Labour charges at Trivandrum International Airport on special occasions.	250	Each	269.00	67250.00
27	Overhauling and servicing of Borewell pumps and Self priming motor (excluding rewinding of motor) of Kirloskar make Model : KU4-0814, 1.5 HP motor, 3Phase, 50Hz, including replacement of bearing, gasket, re-assembling excluding replacement of impeller, testing, including transportation etc, complete as required.	4	Job	3999.00	15996.00
28	Overhauling and servicing of monoblock Sewage pumps and Self priming motor (excluding rewinding of motor) of Kirloskar make model SP-3 B.S, 7.5 HP motor, 3Phase, 50Hz, 2900 rpm, including replacement of bearing, gasket, re-assembling, painting, re-installing, testing and commissioning at site including transportation, etc complete as required	8	Job	6999.00	55992.00
29	Overhauling and servicing of monoblock pumpset (excluding rewinding of motor) of Kirloskar make model KOS-13487,12.5 HP motor,3Phase,50Hz,2900rpm, including replacement of bearing, gasket, reassembling, painting, re-installing, testing and commissioning at site including transportation,etc complete as required.	4	Job	6999.00	27996.00
30	Overhauling and servicing of monoblock pumpset (excluding rewinding of motor) of Kirloskar make 5 HP motor, 3 Phase,50Hz, 1450 rpm, including replacement of bearing, gasket, reassembling, painting, re-installing the same at site, testing and commissioning at site including transportation,etc complete as required.	2	Job	4999.00	9998.00
31	Rewinding of Borewell motor 1.5 HP, 3Phase, 50Hz, Kirloskar make including transportation etc, complete as required.	4	Job	5999.00	23996.00
32	Rewinding of Sewage motor of Kirloskar make, model SP-3 B.S ,7.5 HP, 2900 rpm, 3Phase, 50Hz, including transportation, installation at site, complete as required.	8	Job	7999.00	63992.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
33	Rewinding of monoblock motor Kirloskar make, Model KOS-13487, 12.5 HP, 2900rpm, 3Phase,50Hz including transportation, installation at site etc complete as required .	4	Job	11999.00	47996.00
34	Rewinding of monoblock motor Kirloskar make 5 HP, 1450 rpm, 3Phase, including transportation, installation at site etc. complete as required.	2	Job	5999.00	11998.00
35	Rewinding of following fan/Aircirculator with super enamelled copper wire, baking, varnishing, greasing, refitting of motor ,providing new capacitor,testing etc complete as required.				
35.01	600mm Sweep aircirculators/exhaust fan	10	Job	1799.00	17990.00
35.02	450mm Sweep aircirculators/exhaust fan	10	Job	1399.00	13990.00
35.03	300/380mm Sweep exhaust fan 900rpm heavy duty	5	Job	1699.00	8495.00
35.04	300mm Sweep exhaust fan 1400rpm light duty	5	Job	1299.00	6495.00
35.05	400 mm sweep wall mounting / pedestal fan / 1200 mm Sweep ceiling fan	10	Job	1299.00	12990.00
36	Replacement of defective ball bearing including providing and fixing new bearing for following fans/Aircirculator complete as required.				
36.01	600mm Sweep aircirculators/exhaust fan	6	Job	999.00	5994.00
36.02	450mm Sweep aircirculators/exhaust fan	10	Job	799.00	7990.00
36.03	300/380mm Sweep exhaust fan 900rpm heavy duty	6	Job	799.00	4794.00
36.04	300mm Sweep exhaust fan 1400rpm light duty	6	Job	799.00	4794.00
37.00	Replacement of defective ball bearing including providing and fixing new bearing for 400 mm sweep wall mounting / pedestal fan / 1200 mm Sweep ceiling fan complete as required.	10	Job	399.00	3990.00
38	Replacement of damaged SS wire rope/power cable or both of 20 Mtr highmast including testing of upward and downward movement of lantern carriage etc. complete as required with specialised manpower.(Rope and cable supplied by department)	10	Job	19999.00	199990.00
39	Dismantling of highmast upto 30mtr height from the foundation using cranes and cleaning of inside of mast including clearing of obstrucutions such as bird nest and reinstallation,relaying of SS rope/power cable or both as per requirement,testing and commisioning complete etc as required.	10	Job	21999.00	219990.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
40	Hiring charge for JCB at site, including arranging vehicle permit, passes etc complete as required	50	Hour	1119.00	55950.00
41	Supply of 5CX 2.5 Sqmm EPR insulated and PCP sheathed copper flexible rubber cable for highmast .	150	Mtr	399.00	59850.00
42	Supply of 3 Core x 1.5 Sq.mm PVC insulated and PVC Sheathed, Copper Conductor (flexible) round cable of 1.1KV grade.	200	Mtr	39.00	7800.00
43	Supply of 3 Core x 4 Sq.mm PVC insulated and PVC Sheathed, Copper Conductor (flexible) cable of 1.1KV grade.	300	Mtr	109.00	32700.00
44	Supply of 1.5 Sq.mm FRLS PVC insulated (unsheated) multistranded single core copper conductor flexible cable of 1.1kv grade.	1500	Mtr	15.99	23985.00
45	Supply of 2.5 Sq.mm FRLS PVC insulated (unsheated) multistranded single core copper conductor flexible cable of 1.1kv grade.	1500	Mtr	23.99	35985.00
46	Supply of 4 Sq.mm FRLS PVC insulated (unsheated) multistranded single core copper conductor flexible cable of 1.1kv grade.	360	Mtr	29.00	10440.00
47	Supply of 6 Sq.mm FRLS PVC insulated (unsheated) multistranded single core copper conductor flexible cable of 1.1kv grade.	180	Mtr	49.00	8820.00
48	Supply of 16 Sq.mm FRLS PVC insulated (unsheated) multistranded single core copper conductor flexible cable of 1.1kv grade.	50	Mtr	169.00	8450.00
49	Supply of 6-32 A, SP C curve,10 kA MCB.	100	Each	189.00	18900.00
50	Supply of 6-32 A, SP B curve 10 kA MCB.	150	Each	149.00	22350.00
51	Supply of 6 A-32 A, DP C curve MCB.	10	Each	499.00	4990.00
52	Supply of 40 A DP C curve MCB.	6	Each	799.00	4794.00
53	Supply of 63 A FP C curve MCB.	15	Each	1599.00	23985.00
54	Supply of RCBO DP 16A 300mA.	20	Each	2699.00	53980.00
55	Supply of RCBO FP 40A 100mA.	12	Each	2799.00	33588.00
56	Supply of 100 A FP 25 KA MCCB, with thermal magnetic release.	4	Each	3999.00	15996.00
57	Supply of 250 A FP 36 KA MCCB, Thermal magnetic release.	2	Each	11999.00	23998.00
58	Supply of 6way, SPN, double door, MCB DB with nueutral bus bar,earth bar,DIN bar etc complete as required.	4	Each	699.00	2796.00
59	Supply of 4 way (4+12), TPN, MCB DB with nueutral bus bar,earth bar,DIN bar double door horizontal type etc complete as required.	4	Each	1699.00	6796.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
60	Supply of industrial type socket outlet, with plug top and metal chained cover in sheet steel enclosure including 20A DP MCB.	2	Each	1199.00	2398.00
61	Supply of Tubular Aluminium lugs				
61.01	Supply of Aluminium lugs for 16 sq. mm cable.	100	Each	2.99	299.00
61.02	Supply of Aluminium lugs for 25 sq. mm cable.	60	Each	3.99	239.40
61.03	Supply of Aluminium lugs for 35 sq. mm cable.	30	Each	4.99	149.70
61.04	Supply of Aluminium lugs for 50 sq. mm cable.	20	Each	7.99	159.80
61.05	Supply of Aluminium lugs for 70 sq. mm cable	10	Each	12.99	129.90
61.06	Supply of Aluminium lugs for 95 sq. mm cable	10	Each	13.99	139.90
61.07	Supply of Aluminium lugs for 120 sq. mm cable	30	Each	17.99	539.70
61.08	Supply of Aluminium lugs for 185 sq. mm cable	6	Each	32.99	197.94
61.09	Supply of Aluminium lugs for 240 sq. mm cable	6	Each	45.99	275.94
61.10	Supply of Aluminium lugs for 300 sq. mm cable	6	Each	69.00	414.00
61.11	Supply of Aluminium lugs for 400 sq. mm cable	6	Each	89.00	534.00
62	Supply of Aluminum reducer terminals				
62.01	Supply of Aluminum reducer terminals of 10 sq. mm.	6	Each	9.00	54.00
62.02	Supply of Aluminum reducer terminals of 16 sq. mm	6	Each	9.00	54.00
63	Supply of Aluminium Ferrule				
63.01	Supply of Aluminium Ferrule for 35 sq. mm cable	6	Each	2.99	17.94
63.02	Supply of Aluminium Ferrule for 50 sq. mm cable	6	Each	4.99	29.94
63.03	Supply of Aluminium Ferrule for 150 sq. mm cable	6	Each	19.00	114.00
63.04	Supply of Aluminium Ferrule for 185 sq. mm cable	6	Each	29.00	174.00
63.05	Supply of Aluminium Ferrule for 300 sq. mm cable	6	Each	49.00	294.00
64	Supply of PVC casing capping of the following sizes.				
64.01	20mm x 10mm	150	Mtr	29.00	4350.00
64.02	25mm x 10mm	300	Mtr	39.00	11700.00
64.03	32mm x 10mm	300	Mtr	59.00	17700.00
65	Supply of ISI marked PVC pipes, Bend, Coupler of the following sizes.				
65.01	20mm PVC pipe	300	Mtr	11.99	3597.00
65.02	25 mm PVC pipe	300	Mtr	19.00	5700.00
65.03	32 mm PVC pipe	100	Mtr	39.00	3900.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
65.04	20mm PVC bends	80	Each	5.99	479.20
65.05	25 mm PVC bends	80	Each	7.99	639.20
65.06	32 mm PVC bends	80	Each	9.00	720.00
65.07	20mm PVC Couplers	80	Each	3.00	240.00
65.08	25 mm PVC couplers	80	Each	3.00	240.00
65.09	32 mm PVC couplers	80	Each	9.00	720.00
66	Supply of PVC flexible pipes of the following sizes.				
66.01	20mm PVC flexible pipe	100	Mtr	9.00	900.00
66.02	25 mm PVC flexible pipe	100	Mtr	9.00	900.00
66.03	32 mm PVC flexible pipe	100	Mtr	19.00	1900.00
67	Supply of B class MS Black pipes and Bend of the following sizes.				
67.01	20mm MS Black pipe	60	Mtr	99.00	5940.00
67.02	25mm MS Black pipe	100	Mtr	169.00	16900.00
67.03	20mm MS bend	25	Each	9.00	225.00
67.04	25mm MS bend	25	Each	13.00	325.00
68	Supply of modular type S.P. 5/6 A, one way switch ISI marked.	150	Each	19.00	2850.00
69	Supply of modular type S.P. 15/16 A, one way switch, ISI marked.	50	Each	59.00	2950.00
70	Supply of modular type 5 pin 5/6 A socket outlet ISI marked	80	Each	65.00	5200.00
71	Supply of modular type 6 pin 15/16 & 5/6 A socket outlet ISI marked	100	Each	99.00	9900.00
72	Supply of Surface mounting PVC module box with cover plate & frame suitable for fixing switch and socket suitable for fixing the switch and sockets mentioned at sl no-68 to 71				
72.01	Supply of 3 module	50	Each	99.00	4950.00
72.02	Supply of 4 module	40	Each	99.00	3960.00
72.03	Supply 6 module	40	Each	149.00	5960.00
72.04	Supply of 8module	20	Each	119.00	2380.00
73	Supply of Modular GI box for 3 module and base & cover plate for 3 module	10	Each	99.00	990.00
74	Supply of 18W LED batten similar to crompton make cat no: LCTL-18CDL suitable to operate at 230V,50Hz AC supply.	50	Each	299.00	14950.00

Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
75	Supply of LED 9W batten similar to crompton make cat no: LCTL-9CDL suitable to operate at 230V,50Hz AC supply.	20	Each	269.00	5380.00
76	Supply of LED Mirror light 7W similar to crompton make cat no: LCL-07-CDL suitable to operate at 230V,50Hz AC supply.	30	Each	899.00	26970.00
77	Supply of LED Indication lamp (R,Y, G) 22.5mm outer dia,similar to L&T make Cat No EPLR240A, EPLG240A, EPLY240A suitable to operate at 230V,50Hz AC supply.	100	Each	79.00	7900.00
78	Supply of LED Indication lamp (Blue) 22.5mm outer dia, similar to L&T make Cat No EPLB240A suitable to operate at 230V,50Hz AC supply.	30	Each	139.00	4170.00
79	Supply of 6A three pole Selector Switch similar to L&T Cat No 61026 suitable to operate at 430V,50Hz AC supply.	30	Each	159.00	4770.00
80	Supply of Kirloskar make (Model : KU4-0814) 3 phase, 1.5HP, submersible bore well Pump set including all accessories complete as required.	1	Each	17999.00	17999.00
81	Supply of Capacitor duty contactor for 50 KVAR Capacitor bank with auxiliary contacts similar to L&T Cat No CS96324 suitable to operate at 430V,50Hz AC supply .	10	Each	7999.00	79990.00
82	Supply of Capacitor duty contactor for 25 KVAR Capacitor bank with auxiliary contacts similar to L&T Cat No CS96322 suitable to operate at 430V,50Hz AC supply.	10	Each	2599.00	25990.00
83	Supply of following type of timer switches				
83.01	On delay electronic timer similar to L&T MICON on delay Electronic timer Cat No. 2AODT5 suitable to operate at 430V,50Hz AC supply.	6	Each	899.00	5394.00
83.02	24 Hr timer switch similar to Legrand CAT No. 049986 EconoRex MQT suitable to operate at 430V,50Hz AC supply.	15	Each	3999.00	59985.00
84	Supply of Normal Duty power factor correction Capacitor suitable to operate at 440 V,50 HZ ac supply				
84.01	25 KVAR Normal Duty power factor correction Capacitor	10	Each	3199.00	31990.00
84.02	50 KVAR Normal Duty power factor correction Capacitor	10	Each	6999.00	69990.00



Sl.No	Description of Work / Item(s)	No.of Qty	Units	Rate	Amount
85	Supply of 60 A 4way PVC Connector suitable to operate at 440 V, 50 Hz AC supply.	70	Each	99.00	6930.00
86	Supply of Class A electrically insulated synthetic mat of 2mm thick suitable for all voltages upto 3.3 KV AC as per of IS 15652:2006 standards with upto amendments having minimum width of 1000 mm $\pm$ 20 mm .	50	Sq.Mtr	799.00	39950.00
87	Supply of spider for sewage monoblock pumps of size L100 complete as required.	10	Each	169.00	1690.00
88	Supply of 3 ϕ Digital Multifunction Meter with following parametes V,A,F,PF,Kw,kWh of Class 1.0 accuracy.	10	Each	3799.00	37990.00
89	Supply of 3 ϕ Digital Multifunction Meter with following parameters V,A,F,PF of Class 1.0 accuracy.	10	Each	1729.00	17290.00
90	Supply of Shoe polish cointainer for Shoe polish Machine of Euronics make Model Esm043 complete as required.	20	Each	689.00	13780.00
91	Supply of weather resistant Anti bird spike of polycarbonate material complete as required.	10	Mtr	179.00	1790.00
92	Supply of 6 mm dia SS wire rope of AISI 304 grade, suitable for the High mast pole.	400	Mtr	69.00	27600.00
93	Supply of toughened glass with polished edges of 12mm thickness suitable for Dorma make sliding Doors.	20	SqMtr	1999.00	39980.00
	TOTAL				30716404.56

Say Rs. **30716405.00**

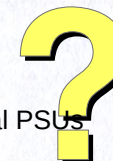
(Rupees Three crore Seven Lakhs Sixteen Thousand Four Hundred and Five only) excluding GST, EPF, ESI & Bonus

Signature Not Verified

Digitally signed by ROJI RAVINDRAN

Date: 2020.05.29 13:26:38 IST

Location: eProcurement System for Central PSUs



(V.S. KRISHNAN)

Jt. General Manager Engg(E)

V. S. KRISHNAN
संयुक्त महा प्रबंधक (इंजी-विद्युत)
Jt. General Manager (Engg-Elect)
भारतीय विमानपत्तन प्राधिकरण
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त्रिवेन्द्रम अंतरराष्ट्रीय हवाई अड्डा
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