



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

No: AAI/RHQ-SR/ENGG/AGM (E-E)/WO-03/ASTI/24-25/20 Date: 14.10.2024

✓ M/s. Power Tech Enterprises,
No. 54, 3rd Street,
Periya Thambi Nagar,
Kumbakonam,
Thanjavur- 612001.

Name of Work: Electrical works at ASTI facilities and other Miscellaneous Works
at Southern Region, Residential Colony, Chennai.

REF: 1. AAI E-Bid No: 2024_AAI_201875
2. Tender (Price Bid) opened: 04.09.2024

Dear Sirs,

1. Your tender for the above mentioned is hereby accepted by the Competent Authority on behalf of the Chairman, Airports Authority of India, at the item rates quoted by you totaling to **Rs.44,27,450/- (Rupees Forty Four Lakhs Twenty Seven Thousand Four Hundred and Fifty Only)** Plus applicable GST @ 18% which is 18.56% below the estimated cost put to tender of **Rs. 54,36,310/-** Plus applicable GST @ 18%.
2. Asst. General Manager Engg (E-E), AAI, New Operational Office, Southern Region, Chennai Airport, Chennai Shall be Engineer – in – charge of the work. You are requested to attend this office by **25.10.2024** to sign and complete the contract agreement. The contract Agreement shall be executed on a non-judicial stamp paper of value Rs.100/- (Rupees One Hundred only). The cost of the stamp paper shall be borne by you.
3. Please Deposit **Rs. 4,42,745/- (Rupees Four Lakhs Forty Two Thousand Seven Hundred and Forty Five Only)** towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from your running bills as per the Clause of 1-A of Clauses of Contract.
4. You are requested to comply with the provision 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.

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5. You are also directed to contact Asst. General Manager (Engg-E), RHQ/SR immediately who will arrange to hand over the site.
6. Please note that the time allowed for carrying out the work shall be **03 (Three) Months** which shall be reckoned from 15th day of issue of this letter.
7. Any further correspondence in connection with the contract should normally be addressed to the Asst. General Manager Engg (E), AAI, New Operational Office, Southern Region, Chennai Airport.
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.

Thanking you,

Encl: 1) Schedule of Quantities – Schedule 'A'

Yours faithfully,

Adinath
14/10/24

Asst. General Manager Engg (E)
AAI, RHQ-SR, Chennai Airport

Schedule of Quantities

Name of Work: Electrical works at ASTI facilities and other Miscellaneous Works at RHQ, SR, Residential Colony, Chennai.

Sl.No	Description of Work / Item(s)	Qty	Units	Rate (Rs.)	Amount (Rs.)
1.00	Supply of recess mounted Round spot light of wattage upto 5 Watts and having minimum 500 Lumens with opal diffuser, separate electronic driver, IP20, CCT 3000 to 4000 K, CRI 80 and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	15.00	Each	700.00	10,500.00
2.00	Supply of Recess mounted downlighter of wattage upto 9 Watts and having minimum 900 Lumens with pressure die-cast aluminium heat sink, Clear PC as a cover in white, powder coated finish with Independent electronic LED driver, IP20, CCT 3000 to 4000 K, CRI 80 and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	123.00	Each	900.00	110,700.00
3.00	Supply of aesthetic and compact, weather proof fitting of wattage upto 8 Watts and having minimum 880 Lumens, Polyester coated aluminium body or metal body, IP65, CCT 3000 to 4000 K, CRI 80, wall/ground mounting and suitable for operation on 230V +/- 10% AC supply etc. complete as required.	5.00	Each	2200.00	11,000.00
4.00	Supply of recess mounting type prewired white LED panel type luminare (cool day light) made of extruded or pressure die casted aluminium housing, opal diffuser/ reflector, separate Electronic driver, wattage not exceeding 15W and having minimum 1500 Lumens, IP20, CCT 5700 to 6500 K, CRI 80 and suitable for operation on 230V +/- 10% AC supply etc., as required.	60.00	Each	900.00	54,000.00
5.00	Supply of wall washer fitting with Four-Directional Beam, aluminum Die Cast, IP65 with overall system wattage not exceeding 7 W and having minimum 770 lumens, CCT 3000 to 4000 K, CRI 70 and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	3.00	Each	1800.00	5,400.00
6.00	Supply of Bollard fitting, Pressure die cast & Powder coated body, PC opal diffuser. Efficient high output LED with IP65, system wattage not exceeding 10 W, minimum 1100 lumens, CCT 3000 to 4000 K, CRI 70 and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	45.00	Each	3600.00	162,000.00
7.00	Supply of LED strip, white/Blue Colour, 5 meter Flexible LED strips with uniform light distribution and long lasting adhesive for perfect cover with suitable driver, 24 W Efficient high output LED, IP 20 and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	30.00	Each	1200.00	36,000.00
8.00	Supply of 2 feet x 2 feet (approx) size, recess mounting type, prewired white LED panel type luminare (cool day light) made of CRCA stainless steel with suitable diffuser/reflector to have uniform illumination with overall sytem wattage not exceeding 36W and having minimum 3600 Lumens, IP20, CRI 80 and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	65.00	Each	2200.00	143,000.00
9.00	Supply of 2 feet x 2 feet (approx) size, surface mounting type prewired white LED panel type luminare(cool day light) made of CRCA stainless steel with suitable diffuser/reflector to have uniform illumination with overall sytem wattage not exceeding 36W and having minimum 3600 Lumens, IP20, CRI 80 and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	14.00	Each	3200.00	44,800.00
10.00	Supply of 1 feet x 1 feet (approx) size, surface mounting type prewired white LED panel type luminare(cool day light) made of CRCA stainless steel with suitable diffuser/reflector to have uniform illumination with overall sytem wattage not exceeding 18W and having minimum 1800 Lumens, IP20, CRI 80 and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	22.00	Each	1200.00	26,400.00
11.00	Supply of recess mounting type, LED Down light luminare with powder coated die-cast aluminium housing with overall sytem wattage not exceeding 18W & having minimum 1800 lumens, IP 20, CRI 80 and suitable for operation on 230V +/- 10% AC supply as required.	47.00	Each	1100.00	51,700.00
12.00	Supply of Flood Light, LED luminare with powder coated, pressure die-cast, aluminium housing with overall sytem wattage not exceeding 100 W and having minimum 1100 lumens, IP 66, CCT 5700 to 6500 K, CRI 70 and suitable for operation on 230V +/- 10% AC supply as required.	20.00	Each	4400.00	88,000.00

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Sl.No	Description of Work / Item(s)	Qty	Units	Rate (Rs.)	Amount (Rs.)
13.00	Supply of 45 W street Light, made with pressure die cast Aluminium housing with toughened glass and high power LED's with secondary optics, IP66 protection, 110 Lumens/watt and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	50.00	Each	1900.00	95,000.00
14.00	Supply of surface mounted bulk head fitting with 10W LED lamp & all accessories, IP 66, CRI 70, 110 Lumens/watt, CCT 6500K and suitable for operation on 230V +/- 10%, 50Hz, AC supply etc., complete as required.	8.00	Each	1100.00	8,800.00
15.00	Supply of surface mounted 40W batten LED fitting, IP 66, 110 Lumens/watt, CRI 80, CCT 5700K to 6500 K and suitable for operation on 230V +/- 10%, 50Hz, AC supply etc., complete as required.	75.00	Each	2400.00	180,000.00
16.00	Supply of following diameter, single phase, metal body, 900 RPM heavy duty Exhaust fan(ISI marked) with louver including all accessories etc., as required.				
16.01	300 mm dia	10.00	Each	2800.00	28,000.00
16.02	150 mm dia	8.00	Each	1800.00	14,400.00
17.00	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 piano type switch, phenolic laminated sheet, suitable size M.S. box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group B	30.00	Each	790.00	23,700.00
18.00	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 B A. 2 x 2.5 sqmm + 1 x 2.5 sqmm earth wire	195.00	Meter	140.00	27,300.00
19.00	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 2 X 4 sq. mm + 1 X 4 sq. mm earth wire	175.00	Meter	190.00	33,250.00
20.00	Supplying and fixing following Modular base & cover plate suitable for existing modular metal boxes etc. as required.				
20.01	1 or 2 Module	35.00	Each	400.00	14,000.00
20.02	3 Module	15.00	Each	450.00	6,750.00
20.03	4 Module	32.00	Each	500.00	16,000.00
20.04	6 Module	15.00	Each	550.00	8,250.00
20.05	8 Module	15.00	Each	600.00	9,000.00
20.06	12 Module	15.00	Each	650.00	9,750.00
21.00	Supplying and fixing following way, vertical type three pole and neutral, sheet steel, MCB distribution board, 415 volts, 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) 4 way (4 + 12), Double door	1.00	Each	5500.00	5,500.00
22.00	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required .(Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) 4 way (4 + 12), Double door	1.00	Each	9500.00	9,500.00
23.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 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. Single pole	20.00	Each	200.00	4,000.00
24.00	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 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. Triple pole 32 A	2.00	Each	1800.00	3,600.00
25.00	Supplying and fixing following rating, 240/415 volts, 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. Four pole 40 A	2.00	Each	2400.00	4,800.00

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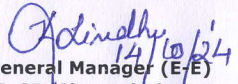
Sl.No	Description of Work / Item(s)	Qty	Units	Rate (Rs.)	Amount (Rs.)
26.00	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 1 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	6.00	Each	2100.00	12,600.00
27.00	Supplying and fixing modular switch/socket on the existing modular plate & switch box, including connection but excluding modular plate etc., as required.				
27.01	5/6 amps switch	175.00	Each	80.00	14,000.00
27.02	15/16 amp switch	45.00	Each	180.00	8,100.00
27.03	5 pin 5/6 amp socket outlet	40.00	Each	140.00	5,600.00
27.04	6 pin 15/16 amp socket outlet	40.00	Each	200.00	8,000.00
28.00	Supplying and replacing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc.as required.	35.00	Each	480.00	16,800.00
29.00	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	20.00	Each	25.00	500.00
30.00	Providing and fixing extra conduit down rod of 20 mm dia, 1 meter length, wiring with 3 X 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable including removing existing down rod etc. complete as required.	16.00	Each	300.00	4,800.00
31.00	Installation, testing and commissioning of LED Pre-wired, box type /down lighter / spot light fitting of all types, complete with all accessories and tube etc in recess/on surface directly on ceiling /wall, connection with 1.5 sq.mm FRLS PVC insulated, copper conductor, single core cable and earthing at existing fitting location including dismantling the existing fitting etc., complete as required.	524.00	Each	150.00	78,600.00
32.00	Installation of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required. up to 450 mm sweep	8.00	Each	300.00	2,400.00
33.00	Supply of following size XLPE insulated PVC sheathed aluminium conductor armoured power cable of 1.1KV grade confirming to IS 7098 (PART-I) with upto date amendments as required. 4 x 16 Sq.mm	300.00	Meter	180.00	54,000.00
34.00	Supply of following size XLPE insulated PVC sheathed aluminium conductor armoured power cable of 1.1KV grade confirming to IS 7098 (PART-I) with upto date amendments as required. 3.5 x 240 Sq.mm	450.00	Meter	1200.00	540,000.00
35.00	Supplying and laying of 50 mm OD HDPE Pipe of PE 80 PN 6 ISI Marked along with all accessories like socket, bend etc., confirming to IS 4984 complete with fitting and cutting, jointing etc., direct in ground (.75 mtr below the ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., as required. 1 X Run of 50 MM HDPE Pipe	300.00	Meter	150.00	45,000.00
36.00	Laying of following size HDPE pipe with all accessories complete with fitting, cutting, jointing etc., direct in ground at a depth of 0.75m and width of 0.35m below the ground level i/c excavation and refilling the trench but excluding sand cushioning and protective covering etc., as required. 1 X Run of 125 MM HDPE Pipe	100.00	Meter	200.00	20,000.00
37.00	Laying of one number PVC/XLPE insulated and PVC sheathed power cable of 1.1KV grade Upto 35 sq.mm in the existing RCC/Hume/STONEWARE/METAL/HDPE Pipe as required.	300.00	Meter	75.00	22,500.00
38.00	Laying of one number PVC/XLPE insulated and PVC sheathed power cable of 1.1KV grade Above 185 sq. mm and upto 400 sq. mm in the existing RCC/Hume/STONEWARE/METAL/HDPE Pipe as required.	300.00	Meter	100.00	30,000.00
39.00	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. Above 185 sq. mm and upto 400 sq. mm	100.00	Meter	150.00	15,000.00
40.00	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. Above 185 sq. mm and upto 400 sq. mm (clamped with 40x3mm MS flat clamp)	50.00	Meter	200.00	10,000.00

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Sl.No	Description of Work / Item(s)	Qty	Units	Rate (Rs.)	Amount (Rs.)
41.00	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. 4 X 16 sq. mm (28mm)	10.00	Each	600.00	6,000.00
42.00	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. 3½ X 240 sq. mm (62 mm)	4.00	Each	2100.00	8,400.00
43.00	Supply, Installation, Testing and Commissioning of 2 TR capacity wall mounted type Split AC unit, 5 star rated, inverter type, fitted with hermetically sealed compressor operating on 220 V +10% 50 Hz Single phase AC supply with evaporator and condensing unit made of copper tubes with aluminium fins i/c cordless remote control, copper piping for both suction and discharge of 3 metres length alongwith power control cables and thermal insulation, metal frame for mounting condensing unit, etc complete as per specifications complete as required	6.00	Each	65000.00	390,000.00
44.00	Supply, Installation, Testing and Commissioning of 1.5 TR capacity wall mounted type Split AC unit (5 star rating inverter type) fitted with hermetically sealed compressor operating on 220 V +10% 50 Hz Single phase AC supply with evaporator and condensing unit made of copper tubes with aluminium fins i/c cordless remote control, copper piping for both suction and discharge of 3 metres length alongwith power control cables and thermal insulation, metal frame for mounting condensing unit, etc complete as per specifications complete as required	15.00	Each	45000.00	675,000.00
45.00	Supply and Installation of Copper pipe for the following capacity Air conditioners including suction and delivery copper pipes with all accessories such as insulation, power & control cabling, etc. as per specifications complete as required				
45.01	For 2 TR Split Air conditioner (beyond 3 meters per Split AC unit)	50.00	Meter	1200.00	60,000.00
45.02	For 1.5 TR Split Air conditioner (beyond 3 meters per Split AC unit)	50.00	Meter	1200.00	60,000.00
46.00	SITC of following capacity voltage stabilisers with copper wound coil having range of 170 to 270 voltage single phase, 50 Hz AC supply i/c necessary fixing arrangements, clamps, screws, metal clad top, connecting 3 core cable of 1 metre length, complete, etc as per specifications complete as required. A. 4/5 KVA stabilizer for Split AC	21.00	Each	4800.00	100,800.00
47.00	Supplying & laying of condensate water drain pipe made of PVC having size of 40mm dia, 6kg/cm capacity, for additional requirement for AC units i/c necessary clamps, screws, supports, etc as per specifications complete as required	150.00	Meter	150.00	22,500.00
48.00	Dismantling and shifting of following capacity Indoor and outdoor units to AAI store /any location specified by AAI, including gas pumping down, pipes, cables, etc., complete as required. A. 1.5 TR capacity split AC	10.00	Each	2500.00	25,000.00
49.00	Supply, Installation, Testing and Commissioning of indoor LT panel made of 2mm thick CRCA Sheet for inner doors & partitions, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing panel with IP 54 protection, suitable for operation at 415 V, 3 Phase, 4 Wire, 50 Hz AC System, complete with all accessories, interconnection, connection, earthing, painting and comprising of the following: a) Incomer: Two Nos. of 400 A, 36 KA, 4P MCCB with Microprocessor Based Releases (L&T MTX 2.0 / Equivalent) for OC/SC/EF Protection and ROM as INCOMER with resin cast C.T. operated Digital Meter (EM 6400 of Conserve/Equivalent), ON/OFF/TRIP Indication Lamps, Phase Indication Lamps with Auto transfer switch facility and bypass arrangement as required. b) Outgoing: 2 Nos. of 315 A, 36 KA, 4P MCCB with Microprocessor Based Releases (L&T MTX 2.0 / Equivalent) for OC/SC/EF Protection and ROM as Outgoings, with ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required. c) Outgoing : 2 Nos. of 250 A, 36 KA, 4P MCCB with Microprocessor Based Releases (L&T MTX 2.0 / Equivalent) for OC/SC/EF Protection and ROM as Outgoings, with ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required. d) One Set of 400 Amps Al. Bus Bars with at Par Neutral Bus Bars as required.	1.00	Each	275000.00	275,000.00

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Sl.No	Description of Work / Item(s)	Qty	Units	Rate (Rs.)	Amount (Rs.)
50.00	Supply, Installation, Testing and Commissioning of indoor Type metering box made out of 2mm thick CRCA Sheet Steel, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing panel with IP 54 protection, suitable for operation at 415 V, 3 Phase, 4 Wire, 50 Hz AC System, complete with all accessories, interconnection, connection, earthing, painting, provided with bottom base channel suitable for bottom entry and locking arrangements including fixing of panel etc. complete as required and comprising of the following 2 cubicles: a) Cubicle 1 : Provision on for One No. 200 KVA, 3Ph, Energy meter along with C.T. etc., complete as required (Energy meter and CT not in scope) with see through Glass in door. b) Cubicle 2 : Provision of two Sets of 400 Amps Al. Bus Bars with at Par Neutral Bus Bars as required.	1.00	Each	125000.00	125,000.00
51.00	Supply and fixing of double door Outdoor Panel with 2 cubicles each having providing 2 Nos. DOL starter suitable for 5 HP motor, digital volt & ammeter, contactor, push button, selector switch, Overload, High-Low voltage & Dry run protection etc., earth terminals, making connections, Suitable foundation etc complete as required.	2.00	Each	32500.00	65,000.00
52.00	Supply, Installation, Testing and Commissioning of Outdoor Type (Double door) junction box/ adaptor box made out of 3mm thick CRCA Sheet Steel for outer Shell dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing panel with IP 54 protection, suitable for operation at 415 V, 3 Phase, 4 Wire, 50 Hz AC System, complete with all accessories, earthing, painting, provided with bottom base channel suitable for bottom entry and locking arrangements including excavation for foundation, providing foundation, suitable RCC pedestal of minimum 700 mm height, 100mm PCC, erection of panel etc. complete as required and comprising of One Set of 400 Amps Al. Bus Bars (RYBN) with at Par Neutral Bus Bars as required.	2.00	Each	125000.00	250,000.00
53.00	Supplying, fixing, testing and commissioning of 5 HP Vertical borewell submersible pumpset , 26 stage, 2.50 LPS discharge (minimum) , head range 66 to 96 Mtr , C.I impeller, SS shaft etc suitable for 50 mm dia delivery line for operation on 415 V, 3 phase power supply etc., complete as required. (Make : Kiloskar KU4 1526 T)	2.00	Each	38500.00	77,000.00
54.00	Supplying, fixing, testing and commissioning of 10 HP Vertical borewell submersible pumpset 5.5 LPS discharge (minimum), head range 40 to 64 Mtr, C.I impeller, SS shaft etc., for operation on 415 V, 3 phase power supply etc, complete as required. (Model : KS6B 1020)	2.00	Each	48500.00	97,000.00
55.00	Earthing with G.I earth pipe 4.5 meter long, 40 mm dia. including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal and salt complete as required.	2.00	Each	9000.00	18,000.00
56.00	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.	150.00	Meter	35.00	5,250.00
57.00	Providing and fixing 25 mm x 5 mm G.I strip on surface or in recess for connections etc. as required	10.00	Meter	250.00	2,500.00
58.00	Supply and replacement of 400 A, 50 KA, 4P MCCBs in the existing panel and providing 50 x 10 MM Buslinks and 3 Nos. 400/5 A resin cast CTs including testing and commissioning etc., complete as required.	1.00	Each	32000.00	32,000.00
	Total				4,427,450.00
	ADD GST @ 18 % (Rs).				796,941.00
	Total Amount in Rs.				5,224,391.00


 14/10/24
 Asst. General Manager (E/E)
 AAI, SR, Chennai Airport