

Ref No: AAI/RHQ-SR/ENGG/AGM (E)/WO-02/2023/08

Date: 01.08.2023

To,

M/s. Balaji Engineering
Flat no.:18, 3rd Floor,
Queens Castle, Lakshmi Nagar,
7th Street, Nanganallur,
Chennai - 600 061.

Name of Work : Generic and equipment specific Civil and Electrical works for Installation of Nav-Aids - DVOR and ILS.

Sub Head : Electrical Works for new LLZ-25 and new GP-25 at Operation Area of Chennai Airport, Southern Region

Ref: 1. AAI Tender Id: 2023_AAI_152060_1
2. e-Tender (Price Bid) opened: 16.05.2023.

Dear Sirs,

1. Your tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totaling to **Rs.49,29,590.00** (Rupees Forty Nine Lakhs Twenty Nine Thousand Five Hundred and Ninety Only) Plus applicable GST @ 18% which is 11.24% below the justified cost of **Rs.55,53,652.00** Plus applicable GST @ 18%.
2. Jt. General Manager Engg (E), AAI, Administrative offices, RHQ-Southern Region, Chennai shall be Engineer – in – charge of the work. You are requested to attend this office by **24.08.2023** 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.4,92,959.00** (Rupees Four Lakhs Ninety Two Thousand Nine Hundred and Fifty Nine 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), immediately who will arrange to hand over the site to you.
6. Please note that the time allowed for carrying out the work shall be 05 (Five) Months and the same shall be reckoned from **10.08.2023**.
7. Any further correspondence in connection with the contract should normally be addressed to the Jt. General Manager Engg (E), AAI, Administrative Offices, RHQ-Southern Region, Chennai.
8. On completion of work, you are requested to clearly indicate AAI GST No. 33AAACA6412D1ZF in your invoice.
9. 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'

2) E-Sahaj Proforma to be followed for obtaining Airport Entry permit

Yours faithfully,
-s/d-

Asst. General Manager Engg (E)
Airports Authority of India

Copy to:

1. GM (ENGG-E)/AAI/RHQ-SR/Chennai Airport.
2. JGM (Engg-E)/AAI/ RHQ-SR /Chennai Airport.
3. JGM (F&A) / AAI/ RHQ-SR/Chennai-(FC accorded by JGM (FIN) vide e-office note No #6 dtd:26.05.2023 in e-office no: 16011/25/2023-ENGG-E-SR.
4. AAI Website /OC.

Asst. General Manager Engg (E)
Airports Authority of India

आर. सुजाता / R. SUJATHA

सहायक महाप्रबंधक (इंजी.-विद्युत) / Assistant General Manager (Engg.-Electrical)
भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India
प्रचालन कार्यालय कॉम्प्लेक्स / Operational Offices Complex
दक्षिणी क्षेत्र, चेन्नई-16 / Southern Region, Chennai-16



**AIRPORTS AUTHORITY OF INDIA
SOUTHERN REGION
CHENNAI AIRPORT, CHENNAI 600 027**

Schedule of Quantity

Schedule-A

Name of work : "Generic and equipment specific Civil and Electrical works for Installation of Nav-Aids - DVOR and ILS. SH: Electrical Works for new LLZ-25 and new GP-25 at Operation Area of Chennai Airport, Southern Region".

Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
1	SH:I Supply Items				
1.01	Supply of 30W linear surface mounted LED luminaire IP 66 240V with pressure diecast aluminium alloy housing, PDC aluminium centre cover, UV stablized injection moulded PC diffuser cover, Corrosion resistance powder coated using nano technology, High efficiency isolated driver with necessary safety protections & inbuilt surge protection of 4KV, lift of 50,000 burning hrs as per L70 standard, system efficacy >100LPW, CRI>80, THD<5%, comes with additional 6KV external surge protector. (Make: Lighting Technologies, Model: Parker V2 surface or Equivalent).	32	Each	7000.00	2,24,000.00
1.02	Supply of 12 Watts Ceiling / Surface mounted LED Lowbay bulkhead fittings having THD less than 5%, die-cast aluminum housing, powder coated, Poly carbonate diffuser, not less than 110 lm/w luminous efficiency, etc and as per specification complete as required (Make: LT, Model: BASE LED LOWBAY NONDIM or equivalent)	4	Each	6000.00	24,000.00
1.03	Supply of 25W LED street light IP 66, 240V with powder coated aluminium alloy housing, High efficiency driver with necessary safety protections & inbuilt surge protection of 6KV, short circuit, over voltage, thermal protection, life of 50,000 burning hrs as per L70 standard, luminaire efficacy >150LPW, CRI>70, THD<5%, comes with additional 10KV external surge protector. (Make:LT, Model: ADORNIS MIN 25W 5700K LED Outdoor Street light or equivalent)	12	Each	6000.00	72,000.00
1.04	Supply of Dual LED Aviation Obstacle Light Fixture total of 10W, IP66 for both lights, LM-6 Aluminium housing, Lens made of Polycarbonate U.V stabilized optical grade suitable for outdoor/sunlight exposure, PCB's of Glass epoxy FR-4 grade with UVLO-94 tested type,Fixture with Individual solid-state Inbuilt Automatic day/night sensor and low intensity Type-B in accordance with ICAO Annex-14 Volume-I Aerodrome Design & Operations. (Make: RAYDYNAMICS, Model:LIT32-D230-UI or Any Make meeting ICAO requirements)	5	Each	7500.00	37,500.00

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Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
1.05	Supply of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos.blades, 30 cm long down rod, 2 nos. canopies, shackle kit,safety rope, copper winding, Power Factor not less than 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required.	2	Each	3500.00	7,000.00
1.06	Supply of 400 mm sweep 5 Blade silent operation wall mountining fan of 1350 RPM and Air delivery of 85 CMM. (Make: Crompton, Model : SilentPro Pentaflo WM or Similar product from AAI list of approved makes)	5	Each	4500.00	22,500.00
1.07	Supply of 400 mm sweep 5 Blade silent operation pedastal fan of 1350 RPM and Air delivery of 85 CMM. (Make: Crompton, Model : SilentPro Pentaflo or Similar product from AAI list of approved makes)	5	Each	4500.00	22,500.00
1.08	Supply of 300 mm dia single phase 1400 RPM mild steel body Exhaust fan and air delivery of 1250 CMH with metallic louver including all accessories and suitable for operation on 230 V, 50 Hz AC supply complete as required.	5	Each	3500.00	17,500.00
1.09	Supply of wall mountable portable Rechargable Emergency LED lamps 5 to 10 watts with minimum 6 hours backup battery, operating supply of 230V AC, auto ON & OFF etc as required.	4	Each	3000.00	12,000.00
1.10	Supply of B-Class GI pipe ISI marked of following dia.				
1.11	80 mm	18	Mtr.	1200.00	21,600.00
1.12	150 mm	18	Mtr.	1500.00	27,000.00
1.13	Supply of 4 inch dia, 1 HP, submersible pump having 39 meter head, Pump housing Motor housing Pump shaft Motor shaft all are made of Stainless steel, winding made of copper wires, Starter Panel with Ammeter, Voltmeter, Overload Protection, Start / Stop buttons, etc complete as required (Similar to: Kirloskar KP4 Jalraaj-1006 1 HP 6 Stage Oil Filled Borewell Pump)	2	Each	20000.00	40,000.00

Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
1.14	Supply of 3 Core X 1.5 sqmm, PVC insulated, PVC sheathed industrail cable for 1 HP submersible pump motor	200	Mtr	250.00	50,000.00
1.15	Supply of CEE industrial type thermoplastic polycarbonate 63A (3P + N + E) IP67 female type socket of coupler with gland entry Watertight, design as per IEC 60309 (Make: Hensel & model no: Catalog No.368)	2	Nos.	12500.00	25,000.00
1.16	Supply of CEE industrial type thermoplastic polycarbonate 63A (3P + N + E) IP67 male type appliance plug for Wall mounting including weatherproof gasket, design as per IEC 60309 (Make: Hensel & model no: Catalog No.668)	5	Nos.	12500.00	62,500.00
1.17	Supply of polycarbonate thermoplastic IP65 rated loop in loop out box with transparent lid suitable size of 3 Phase and Neutral copper bus bars for 250 Amps capacity, with glands for 4 nos of cable entry, necessaty mounting plates, frame, canopy and provision for cable termination of 3.5C x 300 Sq.mm al armoured (Make: Hensel or Similar product from AAI list of approved makes) .	6	Each	10000.00	60,000.00
2	SH: II SITC of MV Panel				
2.01	Fabrication and Supply of MV Switch Board Panel of Outdoor type (Doooble door with hinged type outdoor) tested design as per IEC 61439-1 & 2 suitable for 415 V, 3 Phase, 4 wire 50 Hz AC supply,made out of 3mm thick CRCA sheet steel for outer Shell (width not less than 450 mm) with canopy and 2mm thick CRCA sheet steel for inner partition, 3 mm thick for gland plates, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing, extensible on both sides, painting with 7 tank process for powder coating in approved shade and also includes provision of necessary supporting arrangement with MS "C" channel bottom base channel of MS section not less than 100 mm x50 mm x 5 mm thick, entire panel shall have a common copper earth bar of size 25mm x 5 mm at the rear with 2 nos earth stud,control wiring with 2.5 Sq.mm. FRLS PVC insulated copper conductor cable, cable alleys, cable gland plates in two half and suitable for outdoor operation, complete with all accessories, interconnection, earthing, alignment with the bus ducts etc., as required comprising of the following:				

Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
2.02	<u>I) Incomer Details:</u> A) Two Nos. of 250 A, 50 KA, 4P MCCBs as per latest IEC with Thermal Magnetic Based Releases for OC/SC Protection as INCOMERS with extended ROM for mechanical ON/OFF, cast resin type CT operated Digital MultifunctionMeter [EM 6400 of Conserve/Equivalent], ON/OFF/TRIP Indication Lamps and Phase Indication Lamps etc., as required. B) One No. of 250 A, 50KA. 4P MCCB as per latest IEC with Thermal Magnetic Based Releases for OC/SC Protection as a Buscoupler with extended ROM for mechanical ON/OFF. Providing Mechanical and Electrical Interlocking Facility for 2 incomers and Buscoupler including necessary contactor arrangements etc., complete as required.				
2.03	<u>II) Outgoing Details:</u> C) Four Nos. of 125 A, 25 KA, 4P MCCBs as per latest IEC with Thermal Magnetic Based Releases for OC/SC Protection as Outgoings with extended ROM for mechanical ON/OFF, cast resin type CT operated Digital MultifunctionMeter [EM 6400 of Conserve/Equivalent], ON/OFF/TRIP Indication Lamps and Phase Indication Lamps, as required. D) Two Nos. of Three Phase Surge Protection Device (SPD)for both direct and indirect lightning having 100KA 10/350 micro seconds neutral to earth, 50 KA 10/350 micro sec line to neutral respectively, with limiting voltage less than 1.5 KV connected on the mains power entry point at the incomers & of modular type. E) One Set of 400 Amps Al. Bus Bars with at Par Neutral BUS BARS as required. F) All accessories such as fuses, auxillary contactors, auxillary switches, etc. complete as required.	2	Job	300000.00	6,00,000.00
2.04	Installation, Testing and Commissioning of MV Switch Board Outdoor Type panel mentioned in Item No. from 2.01 to 2.03 including excavation for foundation, providing RCC foundation up to 45 cm height above GL, fixing of panel over the RCC foundation with Fastner and earthing connections etc. complete as required.	2	Jobs	15000.00	30,000.00

Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
2.05	Fabrication and Supply of MV Switch Board Panel of Indoor type tested design as per IEC 61439-1 & 2 suitable for 415 V, 3 Phase, 4 wire 50 Hz AC supply, made out of 2mm thick CRCA sheet steel for frame work and covers, 3 mm thick for gland plates, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing, extensible on both sides, painting with 7 tank process for powder coating in approved shade and also includes provision of necessary supporting arrangement with MS "C" channel bottom base channel of MS section not less than 100 mm x 50 mm x 5 mm thick, entire panel shall have a common copper earth bar of size 25mm x 5 mm at the rear with 2 nos earth stud, control wiring with 2.5 Sq.mm. FRLS PVC insulated copper conductor cable, cable alleys, cable gland plates in two half and suitable for indoor operation, complete with all accessories, interconnection, earthing, alignment with the bus ducts etc., as required comprising of the following: (All MCCB's are OF Ics=100% of Icu)				
2.06	<u>I) Incomer Details:</u> A) One No. of 125 A, 4P Auto Transfer switch (ATS) with protections of UV/OV, Phase Sequence, Single Phasing, Frequency and Suitable for 3-Phase as well as 1-Phase Sources, having selector switch for auto and manual/bypass option in case of failure with extended ROM for ON/OFF, provided with Two Nos. of 125 A, 36 KA, 4P MCCBs as per latest IEC with Thermal Magnetic Based Releases for OC/SC Protection as Incomer-1 & 2 for ATS with extended ROM for mechanical ON/OFF and One No. of 125 A, 36 KA, 4P MCCB as per latest IEC with Microprocessor Based release for OC/SC/EF Protection as Outgoing-1 for ATS with extended ROM for mechanical ON/OFF etc., as required. B) One No. of 125 A, 36 KA, 4P MCCB as per latest IEC with Microprocessor Based release for OC/SC/EF Protection as Incomer-3 with extended ROM for mechanical ON/OFF etc., as required. Providing Mechanical Interlocking Facility for Outgoing-1 and Incomer-3 including necessary contactor arrangements, One common cast resin type CT operated Digital MultifunctionMeter [EM 6400 of Conserve/Equivalent] to be provided for incomers considering busbar reference, .etc., as required.				

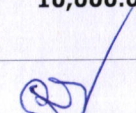
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Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
	<u>II) Outgoing Details:</u>				
2.07	C) Two Nos. of 63 A, 25 KA, 4P MCCBs as per latest IEC with Thermal Magnetic Based Releases for OC/SC Protection as Outgoings with extended ROM for mechanical ON/OFF. With ON/OFF/TRIP Indication Lamps and Phase Indication Lamps, etc., as required. D) Two Nos. of 40A, 10KA, 4P MCB. E) In each phase One No. of 32 A, 10 KA, DP RCBO with 100mA sensitivity with Four Nos. of 20 A, 10 KA, DP MCB and Two Nos. of 10 A, 10KA, DP MCB. (In total 3 Sets to be provided one in each phase) F) Six Nos. of 20 A, 10 KA, DP MCB. (2 Nos. in each Phase) G) Two Nos. of Type-2, 50KA SPDs of modular type. E) One Set of 125 Amps Al. Bus Bars with at Par Neutral BUS BARS as required. F) All accessories such as fuses, auxillary contactors, auxillary switches, etc. complete as required	2	Jobs	150000.00	3,00,000.00
2.08	Installation, Testing and Commissioning of MV Switch Board Indoor Type panel mentioned in item No. from 2.05 to 2.07 as above including required supports, earthing connections etc., as required.	2	Jobs	10000.00	20,000.00
3	SH-III Internal and External Electrical Works				
3.01	Supplying and laying of following size OD HDPE Pipe of PE 80 PN 6 ISI Marked along with all accessories conforming to IS 4984 complete with fitting and cutting, jointing etc., direct in ground (0.75 Mtr below the ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., as required.				
3.02	40mm	236	Mtr	200.00	47,200.00
3.03	110mm	2943	Mtr	500.00	14,71,500.00
3.04	Laying of one number XLPE insulated and PVC sheathed power cable of 1.1 KV grade of following size in the existing RCC/HUME/METAL Pipe/HDPE Pipe as required.				
3.05	Upto 35 Sq.mm	236	Mtr	30.00	7,080.00
3.06	Above 185 sq. mm and upto 400 sq. mm	3153	Mtr	70.00	2,20,710.00
3.07	Laying and fixing of one number XLPE insulated and PVC sheathed power cable of 1.1 KV grade of following size on wall surface as required.				
3.08	Upto 35 Sq.mm (clamped with 1mm Thick Saddle)	24	Mtr	50.00	1,200.00
3.09	Above 185 Sq.mm and upto 400 Sq.mm (clamped with 40 x 3 mm MS flat Clamp)	12	Mtr	50.00	600.00

Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
3.10	Supplying and making indoor end termination with brass compression gland and aluminium lugs for following size of XLPE insulated and PVC sheathed aluminium conductor cable of 1.1 KV grade as required.				
3.11	3.5 X 300 SQ.MM	10	Nos.	1200.00	12,000.00
3.12	4 X 25 SQ.MM	8	Nos.	500.00	4,000.00
3.13	Providing and fixing 6 SWG dia G.I wire on surface or in recess for loop earthing as required.	520	Mtr	35.00	18,200.00
3.14	Supplying and making straight through joint with heat shrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
3.15	3½ X 300 sq. mm	4	Each	6000.00	24,000.00
3.16	Supplying and laying of "B" Class G.I pipe of following dia, i/c excavation of bituminous/ concrete road/ pavement, excavation of Soil to maximum depth of 1.2 Mtrs from ground refilling the Soil and with CC of ratio 1:3:6 on top for 0.15 Mtrs after laying Pipe and plastering, making good the same etc., as required.				
3.17	25 mm	50	Mtr	350.00	17,500.00
3.18	80 mm	36	Mtr	1500.00	54,000.00
3.19	150 mm	210	Mtr	1800.00	3,78,000.00
3.20	Supplying and fixing of thermoplastic polycarbonate enclosure box protected with mentioned capacity of MCB and socket outlet. , suitable for fixing on surface including termination of incoming cable, necessary connections, etc. as required. i) 3 Pin 15A/5A socket outlet - 1 No, ii) 5/6A, Double Pole, 10 kA "C" curve MCB (Make: Hensel or equivalent)	4	Job	7500.00	30,000.00
3.21	Supplying and fixing following rating, 10 kA, miniature circuit breaker of following poles in the existing MCB DB complete with connections, testing and commissioning etc., as required.				
3.22	20 A, 10 kA, "C" curve Double pole	20	Each	200.00	4,000.00
3.23	10 A, 10 kA, "C" curve Double pole	16	Each	500.00	8,000.00
3.24	63 A, 10 kA, "C" curve Double pole	2	Each	500.00	1,000.00

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Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
3.25	Supplying and fixing of 63 A rating, 300 mA, 4P RCCB in the existing MCB DB complete with connections, testing and commissioning etc., as required.	2	Each	3000.00	6,000.00
3.26	Installation, testing and commissioning of of 30W linear surface mounted LED luminaire pre-wired, complete with all accessories and tube etc., directly on ceiling/wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc., as required.	32	Each	500.00	16,000.00
3.27	Installation, testing and commissioning of 12 Watts Ceiling / Surface mounted LED Lowbay bulkhead fittings pre-wired, complete with all accessories and tube etc., directly on ceiling/wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc., as required.	4	Each	500.00	2,000.00
3.28	Installation, testing & commisioning of 25W LED street light fixtures by providing suitable GI arm bracket upto 1mtr length with necessary accessories etc., complete as required.	12	Each	500.00	6,000.00
3.29	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	2	Each	500.00	1,000.00
3.30	Installation, testing and commissioning of 4 inch dia, 1 HP, submersible pump having 39 meter head including Starter Panel with necessary suitable size of UPVC pipe for borewell, rope, adopters, clamps, connections, etc complete as required	2	Each	10000.00	20,000.00
3.31	Installation of Outdoor type polycarbonate Loop-In Loop-Out Junction Box including excavation for RCC foundation of 0.8(L)x0.75(W)x0.5(D) all dimensions in metre upto ground level, Fixing of Junction Box over the RCC foundation with Channel upto an height of 400mm with necessary fixing arrangements etc. including cable terminations complete as required.	6	Jobs	5000.00	30,000.00
4	SH-VI Surge Protection, Lightning Protection & Earthing				
4.01	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc., complete as required.	2	Each	5000.00	10,000.00



Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
4.02	Jointing copper / G.I. tape (with another Copper/GI tape, base of the finial or any other metallic object) by riveting / nut bolting / sweating and soldering etc., as required.	10	Each	500.00	5,000.00
4.03	Providing and fixing G.I. tape 25 mm X 5 mm thick on parapet or surface of wall for lightning conductor complete as required. (For horizontal run)	30	Mtr	150.00	4,500.00
4.04	Providing and fixing G.I. tape 25 mm X 5 mm thick on parapet or surface of wall for lightning conductor complete as required. (For vertical run)	20	Mtr	150.00	3,000.00
4.05	Supply of Secondary Protection power filter for surge protection having Multi Stage Series Power Filter (MSSPF) 63 Amps 3 Phase, 4 wire with neutral protection and built in MOV based surge diverter (type C) of 40KA at input and 40kA rating at load side with LC low pass filter for per phase, Inductor (L) Wounded in cylindrical Ferrite core, Self healing polypropylene Capacitor (C) compliance with IEC 61643/IEEE C62.41/ASNZ 1768/ANSI Standards, prewired in IP55 grade Powder coated metal enclosure with 63Amps MCB, service change over switch, complete with sensing circuit, potential free contacts and necessary indicators and alarms connected in series with UPS input complete as required and as per the specifications. LOCATION : GLIDE PATH - 25 Similar to: Tercel make, Model No.IP63H3/E+N.	2	Each	325000.00	6,50,000.00
4.06	ITC of Secondary Protection power filter for surge protection having Multi Stage Series Power Filter (MSSPF) 63 Amps 3 Phase, 4 wire with neutral protection and built in MOV based surge diverter complete as required.	2	Each	1500.00	3,000.00
4.07	Earthing with G.I. 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. with charcoal / coke and salt as required.	8	Set	10000.00	80,000.00
4.08	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. with charcoal / coke and salt as required.	2	Set	20000.00	40,000.00

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Sl. no	Description	QTY	Unit	Basic Rate [excluding GST]	Total Amount [with out GST]
4.09	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with G.I. nut, bolt, spring, washer etc., as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm).	80	Mtr	200.00	16,000.00
4.10	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I. pipe from earth electrode including connection with G.I. nut, bolt, spring, washer, excavation and re-filling etc. as required.	120	Mtr	450.00	54,000.00
4.11	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	60	Mtr	150.00	9,000.00
Total amount excluding GST					49,29,590.00
Add: GST @ 18%					8,87,326
Total amount including GST					58,16,916.00

(Rupees Fifty Eight Lakhs Sixteen Thousand Nine Hundred and Sixteen Only)INCL GST

Sujatha
01/08/2023
Asst.General Manager (Engg-E)
AAI,RHQ-SR,Chennai

आर. सुजाता / R. SUJATHA
सहायक महाप्रबंधक (इंजी.-विद्युत) / Assistant General Manager (Engg.-Electrical)
भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India
प्रचालन कार्यालय कॉम्प्लेक्स / Operational Offices Complex
दक्षिणी क्षेत्र, चेन्नई -16 / Southern Region, Chennai-16