



भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

No. AAM/ENGG/ELEC/AMED-IX/ FMC-EI /24-25/A-18

Date: 31.07.2024

M/s. Lakshmi Electrical Enterprises,
No. 1C, CLC Works Road,
New Colony, Chromepet,
Chennai - 600 044.

Sub: FMC of Internal & External Electrical Installations at AAI (Metro)
Residential Colony, Operational Office, CISF Accommodations and All
Ancillary Buildings at Chennai International Airport (2024-2026).

Ref: Tender ID- 2024_AAI_198893_1

Dear Sir(s),

1. Your e-tender for the above-mentioned work has been accepted by the Competent Authority on behalf of the Chairman, Airports Authority of India, at the item rates quoted by you totaling to ₹ 2,65,59,266.00 (Rupees Two Crore Sixty Five Lakhs Fifty Nine Thousand Two Hundred and Sixty Six Only) excluding GST which is 15.81% below the Estimated cost of ₹3,15,45,171.00 (Rupees Three Crore Fifteen Lakhs Forty Five Thousand One Hundred and Seventy One Only) excluding GST put to tender.
2. Joint General Manager (Engg-Elect.), Airports Authority of India, Chennai Airport, Chennai - 600 016 shall be the Engineer-in-Charge of the work. You are requested to attend to the Office of Joint General Manager (Engg-Elect.), AAI, Chennai Airport by 01.08.2024 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value ₹ 100.00 (Rupees One Hundred only) and the cost of the stamp paper shall be borne by you.
3. Security Deposit shall be deducted as per Para 1.13 of TCS Page 5. Earnest Money Deposit amount will be returned back to your account after deducting equal amount of EMD against Security Deposit from your bill.
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 there of Central and State Governments.

फैक्स: 044 - 2256 0008 ई पी ए बी एक्स: 2256 0551, चेन्नई हवाई अड्डे, चेन्नई - 600 016
Fax: 044 - 2256 0008 EPABX: 2256 0551, Chennai Airport, Chennai - 600 016



ONE EARTH • ONE FAMILY • ONE FUTURE



CHENNAI AIRPORT
ISO 9001:2015, ISO 14001:2015 & CHSAS 18001:2007 CERTIFIED AIRPORT

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AIRPORTS AUTHORITY OF INDIA

5. Please note that the time allowed for carrying out the work shall be 24 Months (Twenty Four Months) and the same shall be reckoned with effect from 01.08.2024.
6. You are also directed to contact Asst. Gen. Manager Engg. (Elect.), Airport Maintenance Electrical Division-IX, Airports Authority of India, Operational Offices, Chennai Airport immediately for the execution of the above-mentioned work.
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.

Yours faithfully

(A. MARIAPPAN)

Joint General Manager (Engg. -Elect.)
For and on behalf of the Chairman
Airports Authority of India

Encl: Schedule of Work (06 Pages)

AIRPORTS AUTHORITY OF INDIA
CHENNAI AIRPORT::CHENNAI 600 016
SCHEDULE OF WORK

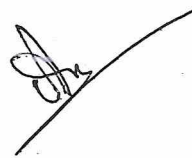
NAME OF WORK: FMC of Internal & External Electrical Installations at AAI (Metro) Residential Colony, Operational Office, CISF Accommodations and All Ancillary Buildings at Chennai International Airport (2024-2026).

Sl.No	Description of Items	Qty	Unit	Basic Rate (Excluding GST)	Amount (Excluding GST)
SH:I	FMC OF INTERNAL AND EXTERNAL ELECTRICAL INSTALLATIONS				
1	Monitoring and Maintenance of Internal and External Electrical Installations at Various Locations (As per List of Inventories) as per Duty Roaster approved by Engineer-In-Charge (Duty Timing - 8 Hours For One Shift) for 100% Serviceability i/c providing consumable material like cotton waste, oil, grease, LT and HT Insulation Tapes and other Sundry Material required for cleaning etc., providing required Tools and Plants, Instruments for Measuring/Testing etc., attending Faults / Breakdown of Equipment / Repairs / Replacement of defective components of Electrical Installations/Wiring/Rewiring with AAI Supplied Components, ensuring satisfactory working condition of the Systems, Routine and General Preventive Maintenance on Daily / Weekly / Monthly / Quarterly / Half Yearly / Yearly Basis as per Standard Manufacturers' Practices and as per Techno Commercial Specifications (TCS), Maintenance of Records and Log Books and reporting as and when required, complete Upkeeping of the Installations etc., on all days including Sundays & Holidays as specified and as directed by Engineer-In-Charge (EIC) as required.				
a)	AAI Buildings / Offices / Accommodations as per Techno Commercial Specifications	24	Months	7,38,036.00	1,77,12,864.00
b)	CISF Buildings / Offices / Accommodations as per Techno Commercial Specifications	24	Months	2,35,873.00	56,60,952.00
SH:II	PAINTING, REPAINTING, REWINDING & MISCELLANEOUS WORKS				
2	Re-painting of L.T. panels, chequered plate, electrical installations etc. with approved quality enamel paint of required colour in two coats with spray gun i/c scrapping & cleaning the surface complete as per site requirement and direction of E-I-C.	100	Sq Mtr	50.00	5,000.00
3	Rewinding of following fans as per original characteristics with super enamelled copper wire and 'E' class insulation material, replacement of the worn out bearing etc., as required i/c dismantling, making arrangement for transportation to workshop and reinstallation of the same at site, making supply connection, providing and fixing of necessary nut & bolts etc. (To be carried out as & when required basis).				
a)	Exhaust fan (300mm/450mm Sweep)	10	Each	400.00	4,000.00
b)	Ceiling fan (1050mm /1200mm Sweep)	50	Each	450.00	22,500.00
c)	Wall mounted fan/pedestal fan (300mm/450 mm Sweep)	10	Each	600.00	6,000.00
d)	Air Circulator (450mm/600mm Sweep)	10	Each	750.00	7,500.00



Sl.No	Description of Items	Qty	Unit	Basic Rate (Excluding GST)	Amount (Excluding GST)
4	Providing Labour and Hire Charges for deploying Excavator (JCB) i/c Operator for tracing the cable faults, excavation and refilling of Cable trench after work etc., as required.	20	Hrs	1,200.00	24,000.00
5	Providing Labour and Hire Charges for deploying Gas Cutting MACHINE i/c Cutter, Gases in Cylinder etc., for cutting of Chequered Plates, MS Angles as required.	10	Hrs	1,800.00	18,000.00
6	Providing labour and hire charges for deploying Crane (upto 10 Ton) i/c operator for lifting/shifting of Equipments/Cable Drums etc., as required.	10	Hrs	1,400.00	14,000.00
7	Locating the Cable fault on LT feeder cables laid directly in ground / duct / pipe including providing Cable Fault Tracer (Rental), Technical Manpower etc., as required.	4	Job	30,000.00	1,20,000.00
SH:III	SUPPLY OF SPARE PARTS FOR MAINTENANCE & REPAIR WORKS (AS AND WHEN REQUIRED BASIS ONLY)				
8	Supply of 300mm sweep, metallic exhaust fan of minimum 1400 RPM, suitable for 230 Volt 50 Hz AC supply including all accessories etc. as required.	30	Each	2,260.00	67,800.00
9	Supply of 450mm sweep, metallic exhaust fan of minimum 1400 RPM, suitable for 230 Volt 50 Hz AC supply including all accessories etc. as required.	20	Each	4,020.00	80,400.00
10	Supply of 1200mm sweep, BLDC BEE 5 star rated ceiling fan suitable for 230 Volt 50 Hz AC Supply, with minimum 350 RPM and minimum Air delivery of 220 CMM with 30 cm down rod and other accessories, canopies, with out regulator etc. complete as required.	40	Each	2,040.00	81,600.00
11	Supply of 1400mm sweep, BLDC BEE 5 star rated ceiling fan suitable for 230 Volt 50 Hz AC Supply, with minimum 300 RPM and minimum Air delivery of 240 CMM minimum with 30 cm down rod and other accessories, canopies, with out regulator etc. complete as required.	20	Each	3,150.00	63,000.00
12	Supply of 450mm sweep, metallic Air circulator of wall mounted type with minimum 1440 RPM and minimum Air delivery of 150 CMM and having minimum noise level 60-65 db suitable for 230 Volt 50 Hz AC Supply including all accessories etc. as required.	5	Each	4,890.00	24,450.00
13	Supply of 600mm sweep, metallic Air circulator of wall mounted type with minimum 1440 RPM and minimum Air delivery of 250 CMM and having minimum noise level 60-65 db suitable for 230 Volt 50 Hz AC Supply including all accessories etc. as required.	5	Each	5,950.00	29,750.00
14	Supply of 400mm sweep Pedestal fan with minimum 1350 RPM suitable for 230 Volt 50 Hz AC Supply including all accessories etc. as required.	10	Each	2,200.00	22,000.00
15	Supply of 400mm sweep wall mounted fan with minimum 1350 RPM suitable for 230 Volt 50 Hz AC Supply including all accessories etc. as required.	20	Each	1,790.00	35,800.00

Sl.No	Description of Items	Qty	Unit	Basic Rate (Excluding GST)	Amount (Excluding GST)
16	Supply of LED flood light luminaire made of pressure die cast aluminium housing with toughened glass and High Purity lens optics with Surface Mounted Device (SMD) LEDs having System efficacy of more than 110 lm/W and minimum Lumen Output of 16500 Lumen with hermitically sealed separate compartments for LEDs and driver suitable to operate in temperature range of 0° to 50° C and on 230 Volt, 50 Hz AC Supply and with Lighting Characteristics of CCT of 5665 ± 355 Kelvin, CRI not less than 70, provided with 4 KV internal Surge Protection and 10 KV external surge protection, IP 66 Ingress Protection complete with all accessories etc., and meeting the techno commercial specifications as required.	20	Each	4,750.00	95,000.00
17	Supply of LED flood light luminaire made of pressure die cast aluminium housing with toughened glass and High Purity lens optics with Surface Mounted Device (SMD) LEDs having System efficacy of more than 110 lm/W and minimum Lumen Output of 8800 Lumen with hermitically sealed separate compartments for LEDs and driver suitable to operate in temperature range of 0° to 50° C and on 230 Volt, 50 Hz AC Supply and with Lighting Characteristics of CCT of 5665 ± 355 Kelvin, CRI not less than 70, provided with 4 KV internal Surge Protection and 10 KV external surge protection, IP 66 Ingress Protection complete with all accessories etc., and meeting the techno commercial specifications as required.	20	Each	2,850.00	57,000.00
18	Supply of LED flood light luminaire made of pressure die cast aluminium housing with toughened glass and High Purity lens optics with Surface Mounted Device (SMD) LEDs having System efficacy of more than 110 lm/W and minimum Lumen Output of 3300 Lumen with hermitically sealed separate compartments for LEDs and driver suitable to operate in temperature range of 0° to 50° C and on 230 Volt, 50 Hz AC Supply and with Lighting Characteristics of CCT of 5665 ± 355 Kelvin, CRI not less than 70, provided with 4 KV internal Surge Protection and 10 KV external surge protection, IP 66 Ingress Protection complete with all accessories etc., and meeting the techno commercial specifications as required.	20	Each	1,500.00	30,000.00
19	Supply of 600mm x 600mm, recess Mounted LED fixture with powder coated CRCA housing having luminaire efficacy of not less than 100 lm/W and minimum Lumen Output of 3600 Lumen suitable to operate 140 – 270V AC supply, LED Colour Temperature from 5700K- 6500K with minimum 50000 burning hours life, operating at a temperature of -10°C to +50° C, IP 20 protected, complete as required and meeting the technical specifications as required.	20	Each	1,450.00	29,000.00
20	Supply of 4 feet LED batten made of extruded aluminium housing having luminaire efficacy of not less than 110 lm/W and minimum Lumen Output of 2000 Lumen suitable to operate 150 – 270V AC supply, LED Colour Temperature from 5700K - 6500K with minimum 50000 burning hours life, operating at a temperature of -10°C to +50° C, IP 20 protected, complete as required and meeting the techno commercial specifications as required.	50	Each	260.00	13,000.00



Sl.No	Description of Items	Qty	Unit	Basic Rate (Excluding GST)	Amount (Excluding GST)
21	Supply of LED recess mount down lighter made of aluminium pressure die-cast housing with luminaire efficacy of not less than 100 lm/W and minimum Lumen Output of 1500 Lumen. suitable to operate 150 - 270V AC supply, LED Colour Temp. from 5700K- 6500K with Minimum 50000 burning hours life, operating at a temperature of -10°C to +50° C, IP 20 protected, complete as required and meeting the techno commercial specifications as required.	20	Each	510.00	10,200.00
22	Supply of B22 9 W LED GLS Bulb having efficacy of minimum 100 lm/W, CT 6500 K, suitable for 220-240 Volts AC Supply as required.	100	Each	135.00	13,500.00
23	Supply of 2.5 MFD Capacitor for Fan operated on single phase, 230 V AC Supply as required.	500	Each	25.00	12,500.00
24	Supply of following sizes PVC Casing and Capping of 1.2 mm thick as required.				
a)	20 X 12mm	200	Mtr	40.00	8,000.00
b)	25 X 16 mm	100	Mtr	60.00	6,000.00
25	Supply of 3 kW high-grade magnesium oxide insulated copper element Instant Electric Water Geyser of minimum 3 litres storage capacity made of inner tank of high-grade 304 Stainless Steel and Rust-proof high-quality polymer constituents outer body with all standard accessories such as pressure release valve, ISI marked thermostat, disc type snap action safety device and anti-siphon protection etc., as required.	3	Each	4,100.00	12,300.00
26	Supply of Aluminium Conductor, XLPE insulated, PVC sheathed, armoured power cable of 1.1 KV grade of following Sizes conforming to IS 7098 (Part-1) as amended upto date as required.				
a)	3 X 10 sq. mm	100	Mtr	135.00	13,500.00
b)	3 X 16 sq. mm	100	Mtr	140.00	14,000.00
c)	4 X 10 sq. mm	100	Mtr	165.00	16,500.00
d)	4 X 16 sq. mm	100	Mtr	180.00	18,000.00
e)	4 X 25 sq. mm	200	Mtr	220.00	44,000.00
f)	3½ X 35 sq. mm	200	Mtr	260.00	52,000.00
g)	3½ X 95 sq. mm	100	Mtr	625.00	62,500.00
h)	3½ X 120 sq. mm	100	Mtr	795.00	79,500.00
27	Supply of Copper Conductor, FR PVC insulated, PVC sheathed, un-armoured power cable of 1.1 KV grade of following Sizes conforming to IS 694 as amended upto date as required.				
a)	3 x 1.5 sq.mm	500	Mtr	60.00	30,000.00
b)	3 x 2.5 sq.mm	500	Mtr	90.00	45,000.00
c)	3 x 4.0 sq.mm	200	Mtr	145.00	29,000.00
d)	4 x 4.0 sq.mm	100	Mtr	180.00	18,000.00
e)	3 x 6.0 sq.mm	100	Mtr	200.00	20,000.00

Sl.No	Description of Items	Qty	Unit	Basic Rate (Excluding GST)	Amount (Excluding GST)
28	Supply of following sizes Single core flexible copper conductor Flame Retardent Low Smoke (FRLS) PVC insulated wires of 1.1 KV Grade conforming to IS:694 as required.				
a)	1.5 sq.mm	500	Mtr	20.00	10,000.00
b)	2.5 sq.mm	500	Mtr	30.00	15,000.00
c)	4 sq.mm	300	Mtr	35.00	10,500.00
d)	6 sq.mm	100	Mtr	60.00	6,000.00
29	Supply of following rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load and suitable to fix in the existing MCB DB as required.				
a)	(0-32) A SP	150	Each	120.00	18,000.00
b)	40A DP	5	Each	550.00	2,750.00
c)	63A DP	5	Each	630.00	3,150.00
d)	40A TP	5	Each	870.00	4,350.00
e)	40A FP	10	Each	1,100.00	11,000.00
f)	63A FP	10	Each	1,200.00	12,000.00
30	Supply of following Modular switches, Modular sockets, PVC boxes, Modular base & cover plates etc. as required.				
a)	Supply of 10A Modular Switch, Anchor Roma make code No. 21011 or equivalent.	200	Each	40.00	8,000.00
b)	Supply of 20A Modular Switch, Anchor Roma make code No. 21066 or equivalent.	150	Each	90.00	13,500.00
c)	Supply of 10A Modular Socket, Anchor Roma make code No. 21102 or equivalent.	100	Each	80.00	8,000.00
d)	Supply of 25A & 10A Modular Twin Socket, Anchor Roma make code No. 30828 or equivalent.	100	Each	140.00	14,000.00
e)	Dummy plate, Anchor Roma make code No. 21598 or equivalent.	50	Each	20.00	1,000.00
f)	1 or 2 Module PVC box, Anchor Roma make code No. 21281 or equivalent.	50	Each	40.00	2,000.00
g)	3 Module PVC box, Anchor Roma make code No. 20449 or equivalent.	100	Each	50.00	5,000.00
h)	4 Module PVC box, Anchor Roma make code No. 21292 or equivalent.	100	Each	55.00	5,500.00
i)	6 Module PVC box, Anchor Roma make code No. 30511 or equivalent.	150	Each	70.00	10,500.00
j)	9 Module PVC box, Anchor Roma make code No. 30704 or equivalent.	100	Each	90.00	9,000.00
k)	12 Module PVC box, Anchor Roma make code No. 20347 or equivalent.	20	Each	120.00	2,400.00
l)	Supply of 1 or 2 Module base & cover plate, Anchor Roma make code No. 30227 WH or equivalent for modular boxes.	50	Each	70.00	3,500.00
m)	Supply of 3 Module base & cover plate, Anchor Roma make code No. 30238 WH or equivalent for modular boxes.	100	Each	90.00	9,000.00
n)	Supply of 4 Module base & cover plate, Anchor Roma make code No. 30249 WH or equivalent for modular boxes.	100	Each	110.00	11,000.00
o)	Supply of 6 Module base & cover plate, Anchor Roma make code No. 30250 WH or equivalent for modular boxes.	150	Each	140.00	21,000.00
p)	Supply of 8/9 Module base & cover plate, Anchor Roma make code No. 30384 or equivalent for modular boxes.	100	Each	170.00	17,000.00
q)	Supply of 12 Module base & cover plate, Anchor Roma make code No. 30271 or equivalent for modular boxes.	20	Each	200.00	4,000.00

Sl.No	Description of Items	Qty	Unit	Basic Rate (Excluding GST)	Amount (Excluding GST)
SH-IV	CMC AND LIFT LICENSE WORKS				
31	Liaising with Tamilnadu Electrical Inspectorate for getting Lift License including submission of application, Payment of Fee, co-ordination with Lift Inspector, Receipt of License, submission to EIC etc., as required.	1	Job	10,000.00	10,000.00
32	All Inclusive Comprehensive Annual Maintenance Contract of 10 KVA 3 Phase Numeric Make UPS System installed at Ceremonial Lounge, including providing preventive maintenances as per OEM Standards and Recommendations, carrying out Breakdown Maintenance, Emergency Service etc., including supply and replacement of all necessary spares and consumables, providing technical and supporting labour, maintenance of Records, meeting the requirement of AAI to ensure 100% Serviceability etc., complete as required.	12	Months	2,000.00	24,000.00
SH-V	DSR E&M 2022 ITEMS				
33	Execution of Items of CPWD Delhi Schedule Rates (DSR) E&M 2022 as and when required for attending Repair and Maintenance, Breakdowns and Upkeep of Internal and External Electrical Installations as per Direction of Engineer-In-Charge at All Locations under Chennai Airport conforming to CPWD General Specifications for Electrical Works Part-I (Internal) 2023, Part-II (External) 2023 and Part-IV (Substation) 2013 and also to relevant BIS Specifications. Note: The Bidder shall quote the Rate in INR only for the Job corresponding to the Base Rate (Rs. 10,00,000.00 as per Proposed Estimate) and Percentage (%) Above/ Below shall be calculated by AAI (Based on Quoted Rate w.r.t Base Rate) and the same % shall be calculated by AAI (Based on Quoted Rate w.r.t Base Rate) and the same % worked out will be applied on DSR Rates while executing the DSR Items and will be paid as per Payment Methodology given in Annexure - E).				
a)	For Year - I	1	Job	7,80,000.00	7,80,000.00
b)	For Year - II	1	Job	7,80,000.00	7,80,000.00
	Total				2,65,59,266.00

Note: Applicable GST shall be paid on submission of taxable invoice as extra.

Digitally signed by Jini Sharma
Date: 2024.08.15 15:15:59 +05'30'
Location: eProcurement System for Central PSUs