



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

No: AAM/ENGG/ELEC/AMED-II/LT_Panel/ 2023-24/A-15

Date: 24.08.2023

To

M/s Edge Telecom Pvt. Ltd.,
1st Floor, Main Sohna Road,
Near Radha Krishnan Mandir,
Badshahpur, Gurgaon – 122101.
Haryana.

Name of the Work: Replacement of LT panels at basement of T1 & T4 at Chennai Airport.

1. Ref: - Tender ID. 2023_AAI_159878_1.

2. Your E-Tender Opened on 09.08.2023.

Dear Sirs,

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 **₹ 87,95,497.00 (Rupees Eighty-Seven Lakhs Ninety-Five Thousand Four Hundred and Ninety-Seven Only) Excluding GST** Which is 11.03% Below the Estimated Cost put to tender ₹ 98,85,792.00 (Rupees Ninety-Eight Lakhs Eighty-Five Thousand Seven Hundred and Ninety-Two Only) Excluding GST.
2. Joint General Manager Engineering (Elec)-II EMD, Operational Office, Airports Authority of India, Chennai Airport, Chennai – 600016 shall be the Engineer-in charge of the work. You are requested to attend the office of Joint General Manager Engineering (Elec)-II, AAI, Chennai Airport on or before 04.09.2023 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value of Rs.100/- (Rupees One Hundred Only) and the cost of the stamp paper shall be borne by you.
3. The Earnest Money amount of **₹ 1,97,716 (Rupees One Lakh Ninety Seven Thousand Seven Hundred and Sixteen Only)** received along with your tender will be release after 1st RA bill of work. Please deposit the amount of **₹ 8,79,550.00 (Rupees Eight Lakh Seventy Nine Thousand Five Hundred and Fifty Only)** towards Security Deposit within 10 days from the date of issue of this letter failing which the same will be deducted as per conditions of clause 1A of the contract document.
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.
5. You are also directed to contact Senior Manager Engineering (Electrical) Airport Maintenance Electrical Division II, Operational Office, Airports Authority of India, Chennai Airport 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 **04 (Four) Months** and same shall be reckoned from 7th day of issue of work order.

(Page 1 of 2)



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

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,

K. Ramesh Babu
24/08/2023

K. RAMESH BABU,
Senior Manager (Engg. -Elect.)
AAI Chennai Airport.

Encl: Schedule of Quantities (05 Pages)

(Page 2 of 2)



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA
चेन्नै एयरपोर्ट:: चेन्नै 600 016
CHENNAI AIRPORT:: CHENNAI 600 016

Schedule of Quantity

NAME OF WORK : Replacement of LT Panels at Basement of T1 and T4 at Chennai Airport.

Sl. No.	Description	Qty	Unit	Rate	Amount
1	Fabrication, Supply, installation, Testing & Commissioning of Indoor wall mounted/floor mounted ,Extendable, TTA type LT panel made up of CRCA sheet steel, IP42, Cubicle type, including providing and fixing suitable size Aluminium Bus bar with all accessories suitable for operation at 433 V, 3 Phase, 4 wire, 50HZ, A.C Power supply System, compartmentalized and i/c providing and fixing following switch gears and accessories therein complete with connections,interconnections with suitable size of AL strips /bars/copper wires i/c powder coated with approved colour,complete with all accessories, interconnection, earthing, painting coating, earth studs cable Entry provision etc., as required as per technical specification.				
	Incomer				
	1 No. ACB, 800 Amps, 36 kA, MDO 4 Pole with microprocessor release with overload, short circuit & earth fault protection, Manual wound spring charged closing mechanism, horizontal draw out type, cast resin CT including connections and and with multifunction meter confirming to IS 13947-2 as amended up to date etc as required.				
	Bus Bars				
	TPN aluminium extensible type main bus bars of minimum of 800 Amps. capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 50kA capacity for 1 sec.				
	Outgoing				
	a. 4 Nos. MCCB, 160 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.				
	b. 13 Nos. MCCB, 100 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.				
	c.30 Nos. MCCB, 63 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.	1	Job	16,93,400.00	16,93,400.00
2	Fabrication, Supply, installation, Testing & Commissioning of Indoor wall mounted/floor mounted,Extendable, TTA type LT panel made up of CRCA sheet steel,IP42, Cubicle type, including providing and fixing suitable size Aluminium Bus bar with all accessories suitable for operation at 433 V, 3 Phase, 4 wire, 50HZ, A.C Power supply System, compartmentalized and i/c providing and fixing following switch gears and accessories therein complete with connections,interconnections with suitable size of AL strips /bars/copper wires i/c powder coated with approved colour, complete with all accessories, interconnection, earthing, painting coating, earth studs cable Entry provision etc., as required as per technical specification.				
	Incomer				
	1 No. ACB, 800 Amps, 36 kA, MDO 4 Pole with microprocessor release with overload, short circuit & earth fault protection, Manual wound spring charged closing mechanism, horizontal draw out type, cast resin CT including connections and and with multifunction meter confirming to IS 13947-2 as amended up to date etc as required.				
	Bus Bars				

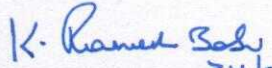
Sl. No.	Description	Qty	Unit	Rate	Amount
	TPN aluminium extensible type main bus bars of minimum of 800 Amps. capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 50kA capacity for 1 sec.				
	Outgoing				
	a. 4 Nos. MCCB, 160 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.				
	b. 14 Nos. MCCB, 100 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.				
	c. 3 Nos. MCCB, 63 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.	1	Job	9,27,400.00	9,27,400.00
3	Fabrication, Supply, installation, Testing & Commissioning of Indoor wall mounted/floor mounted,Extendable, TTA type LT panel made up of CRCA sheet steel,IP42, Cubicle type, including providing and fixing suitable size Aluminium Bus bar with all accessories suitable for operation at 433 V, 3 Phase, 4 wire, 50HZ, A.C Power supply System, compartmentalized and i/c providing and fixing following switch gears and accessories therein complete with connections,interconnections with suitable size of AL strips /bars/copper wires i/c powder coated with approved colour, complete with all accessories, interconnection, earthing, painting coating, earth studs cable Entry provision etc., as required as per technical specification.				
	Incomer				
	1 No. ACB, 800 Amps, 36 kA, MDO 4 Pole with microprocessor release with overload, short circuit & earth fault protection, Manual wound spring charged closing mechanism, horizontal draw out type, cast resin CT including connections and and with multifunction meter confirming to IS 13947-2 as amended up to date etc as required.				
	Bus Bars				
	TPN aluminium extensible type main bus bars of minimum of 800 Amps. capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 50kA capacity for 1 sec.				
	Outgoing				
	a. 5 Nos. MCCB, 160 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.				
	b. 4 Nos. MCCB, 100 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.				
	c. 14 Nos. MCCB, 63 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.	1	Job	9,88,600.00	9,88,600.00
4	Fabrication, Supply, installation, Testing & Commissioning of Indoor wall mounted/floor mounted, Extendable, PTTA type LT panel made up of CRCA sheet steel,IP42, Cubicle type, including providing and fixing suitable size Aluminium Bus bar with all accessories suitable for operation at 433 V, 3 Phase, 4 wire, 50HZ, A.C Power supply System,compartmentalized and i/c providing and fixing following switch gears and accessories therein complete with connections,interconnections with suitable size of AL strips /bars/copper wires i/c powder coated with approved colour, complete with all accessories, interconnection, earthing, painting coating, earth studs cable Entry provision etc., as required as per technical specification.				
	Incomer				

Sl. No.	Description	Qty	Unit	Rate	Amount
	1 No, 200 Amps, 36 kA, 4P MCCB with Rotary Handle as incomer with R,Y,B,ON,OFF, selector switches, Trip indication lamps, resin cast CT including connections etc as required.				
	Bus Bars				
	TPN aluminium extensible type main bus bars of minimum of 200 Amps. capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 50kA capacity for 1 sec.				
	Outgoing				
	18 Nos. MCCB, 63 Amps, 4 Pole, 25 kA with adjustable setting , microprocessor release with O/C, S/C & E/F protection, with rotary handle and cast resin CT including connections etc as required.	1	Job	2,57,800.00	2,57,800.00
5	Fabrication, Supply, installation, Testing & Commissioning of Indoor wall mounted/floor mounted,Extensible, PTTA type LT panel made up of CRCA sheet steel,IP42, Cubicle type, including providing and fixing suitable size Aluminium Bus bar with all accessories suitable for operation at 433 V, 3 Phase, 4 wire, 50HZ, A.C Power supply System,compartmentalized and i/c providing and fixing following switch gears and accessories therein complete with connections,interconnections with suitable size of AL strips /bars/copper wires i/c powder coated with approved colour,complete with all accessories, interconnection, earthing, painting coating, earth studs cable Entry provision etc., as required as per technical specification.				
	a. 63Amps , 25 KA, 4P On Load Change over Switch with Rotary Handle and center OFF Position and Indication Lamps - 13 Nos.				
	b.200Amps , 25 KA, On Load Change over Switch with Rotary Handle and center OFF Position and Indication Lamps - 7 Nos.	1	Job	3,87,500.00	3,87,500.00
6	Fabrication, Supply, Installation, Testing & Commissioning of outdoor,PTTA type MV feeder pillar panel with double door arrangement, made up of 2mm CRCA sheet steel, door dust tight vermin proof,totally enclosed, IP65, Free standing floor mounting cubicle type including providing and fixing suitable size aluminium bus bar with all accessories and earthing, grouting , providing pedestal, cable entry provision etc. suitable for operation at 433V 3 phase 4 wire 50 Hzs AC power supply system as required i/c dismantling the old panel and handed over to AAI store and providing required brick pedestal etc.. complete and comprising of following				
	a. 200 Amps, Change over Switch 200 A, 35 KA, 4 pole MCCB with thermal magnetic releases as incomer with R, Y, B, ON, OFF, TRIP indication lamps, resin cast CT's with multifuction meter - 1 set as incomer				
	b. 63A, 25KA, 4P MCCB with thermal magnetic releases as incomer with ON, OFF, TRIP indication lamps, resin cast CT's with digital meter as outgoing - 6 sets. as outgoing.				
	c. TPN aluminium extensible type main bus bars of minimum of 200 Amps. capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. for withstanding fault level of 50kA capacity for 1 sec.				
	d. TP contact MNX80, L&T or equivalent contractor with 24 hours. Digital timer along with 2A, SP MCB and control wiring for street light / Hi-mast lighting control - 1 set with all necessary accessories etc. Complete as required	2	Job	2,26,400.00	4,52,800.00

Sl. No.	Description	Qty	Unit	Rate	Amount
7	Supply and fixing of nominal 2.0mm $\pm$ 10% thick, width 1mtr insulated Mat conforming to IS 15652: 2006 i/c removal of existing mats from the surface i/c proper cleaning, fixing with suitable adhesive/ chemibond, Puresin, water proofing compound and sealing material as per service recommendation of Annexure 'A' 'Clause C' of IS: 15652 and suitable for Class - A up to 3.3KV etc. complete as required.	75	Sq. Mtr	1,035.00	77,625.00
8	Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
	a. 400 mm width X 100mm depth X 2.0 mm thickness	100	Mtr.	1,232.00	1,23,200.00
	b. 500 mm width X 100 mm depth X 2.0 mm thickness	130	Mtr.	1,444.00	1,87,720.00
9	Supply, installation, testing and commissioning of 800Amps, 50KA for 1 sec, Indoor IP 54 Sandwich Type Bus Trunking complying to IEC 61439-1&6 including fabrication, for use on 3 phase 4 wire, 415 Volts, 50Hz AC Supply with metal clad enclosure made of 1.6mm thick GI Sheet duly powder coated in convenient sections complete with 4 Nos. of Aluminium Bus Bars with Class F Insulation, necessary joints, elbow joints & expansion joints and bends, adopter box and Copper Flexible for joints & expansion joints and bends, adopter box and copper flexible joints, with integral earth, suspenders, angle iron bracket, fasteners, connecting to earthing system as required.				
	a)800 A 50KA ISC for 1 sec	180	Mtr.	12,040.00	21,67,200.00
10	Fabrication, supply & installation of Bus bar connection Junction box of Suitable Size and shall be made up to 2mm CRCA sheet steel with suitable front covering with screws with 8 set bus bars of minimum of 100 Amps. capacity with heat shrinkable coloured sleeves and i/c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc for connecting 3.5 x 35 sq.mm PVC insulated armoured cable.(incoming cable 8nos and out going cables 8 nos) etc.. as required	4	Job	52,000.00	2,08,000.00
11	Supply of following size of 1.1kv grade multistrand aluminium conductor XLPE insulated and PVC sheathed armoured cable as per IS : 7098 (part1)1988 with up to date amendments.				
	a. 3.5 x 35 Sq.mm	200	Mtr	270.00	54,000.00
	b. 3.5 x 70 Sq.mm	50	Mtr	523.00	26,150.00
	c. 3.5 x 120 Sq.mm	50	Mtr	821.00	41,050.00
	d. 3.5 x 185 Sq.mm	100	Mtr	1,201.00	1,20,100.00
	e.. 3.5 x 240 Sq.mm	100	Mtr	1,593.00	1,59,300.00
12	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.				
	a.3½ X 35 sq. mm	10	set	3,544.00	35,440.00
	b.3½ X 70 sq. mm	10	set	4,544.00	45,440.00
	c.3½ X 120 sq. mm	10	set	7,464.00	74,640.00
	d.3½ X 185 sq. mm	10	set	8,415.00	84,150.00
	e. 3.5 x 240 Sq.mm	4	set	12,474.00	49,896.00
13	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				
	(a) 4 X 25 sq. mm (28mm)	6	Set	542.00	3,252.00
	(b)4 X 35 sq. mm (32mm)	64	Set	623.00	39,872.00
	(c) 3½ X 70 sq. mm (38mm)	24	Set	735.00	17,640.00

Sl. No.	Description	Qty	Unit	Rate	Amount
	(d) 3½ X 95 sq. mm (45mm)	6	Set	851.00	5,106.00
	(e) 3½ X 120 sq. mm (45mm)	8	Set	960.00	7,680.00
	(f) 3½ X 185 sq. mm (57mm)	10	Set	1,237.00	12,370.00
	(g) 3½ X 240 sq. mm (62mm)	10	Set	1,930.00	19,300.00
	(h) 3½ X 300 sq. mm (70mm)	4	Set	2,514.00	10,056.00
14	Fabrication of Panel MS frame size 4450 mm x 750 mm x 100 mm, dismantling the existing panel with base and fixing of new base frame including connection and disconnection of all incoming and outgoing cables etc. as required.	1	Job	10,800.00	10,800.00
15	Earthing with copper earth plate 600mm 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 meter long etc.. With charcoal coke and salt as required.	6	Set	14,850.00	89,100.00
16	Providing and fixing 25 mm X 3mm Copper 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.	60	Mtr.	841.00	50,460.00
17	Providing and fixing 25 mm x 3 mm copper strip on existing tray or surface or in recess for connections etc. as required.	300	Mtr.	300.00	90,000.00
18	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.				
	a) Up to 35 Sq.mm(clamped with 1mm thick saddle)	350	Mtr.	155.00	54,250.00
	b) Above 35 Sq. mm and up to 95 Sq. mm (clamped with 25 X3 mm MS flat clamp)	270	Mtr.	175.00	47,250.00
	c)Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	200	Mtr.	217.00	43,400.00
	d)Above 185 Sq. mm and up to 400 Sq. mm (clamped with 40X3 mm MS flat clamp)	200	Mtr.	257.00	51,400.00
19	Dismantling of 5 Nos. indoor type LT panel including disconnection of cables, dismantling of connected cable trays etc. and Handed over to AAI Store as per the direction of Engineer - in - Charge.	1	job	82,150.00	82,150.00
				Total ₹	87,95,497.00

(Rupees Eighty Seven Lakhs Ninety Five Thousand Four Hundred and Ninety Seven Only) *Excluding GST*


 (K.RAMESH BABU) 24/08/2023
 Sr.Manager(E-E)