



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

भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

AAM/ENGG-ELECT/AMED-II/Misc./2024-25/ A-38

12.12.2024

//BY SPEED POST/ E-MAIL//

WORK ORDER

M/S BALAJI ENGINEERING,
FLAT NO. 18, 3RD FLOOR,
QUEEN'S CASTLE,
LAKSHMI NAGAR, 7TH STREET,
NANGANALLUR,
CHENNAI – 600 061.

NAME OF WORK: MISCELLANEOUS CAPITAL WORKS AS PER REQUIREMENTS. SH: SITC OF LT PANELS AT VARIOUS LOCATIONS, SUPPLY AND LAYING OF LT CABLES FOR VARIOUS LOADS & OTHER MINOR WORKS ETC. AT CHENNAI AIRPORT.

REF: 1. TENDER ID: 2024_AAI_212123_1

2. YOUR E- TENDER OPENED ON 03.12.2024.

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 **₹37,62,505.00 (Rupees Thirty Seven Lakhs Sixty Two Thousand Five Hundred and Five Only) Excluding GST** which is **18.00%** Below the Estimated Cost put to tender ₹ 45,88,422.00 (Rupees Forty Five Lakhs Eighty Eight Thousand Four Hundred and Twenty Two Only) Excluding GST.
2. Dy. General Manager (Engg-Elect), AMED-II, Operational Offices, 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 Dy. General Manager (Engg-Elect), AMED-II, AAI, Chennai Airport on or before 23.12.2024 to sign and complete the contract agreement. The contract agreement shall be executed on the non-judicial stamp paper of value of ₹ 100/- (Rupees One Hundred Only) and the cost of the stamp paper shall be borne by you.
3. Security Deposit shall 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) Act 1971 and minimum wages act and rules thereof Central and State Governments.
5. Please note that the time allowed for carrying out the work shall be 02 **(Two) Months** and same shall be reckoned from the 10th day of issue of this letter.

फैक्स: 044 - 2256 0008 ईपीएबीएक्स: 2256 0551, चेन्नईहवाईअड्डे, चेन्नई – 600 016.
Fax: 044 - 2256 0008 EPABX: 2256 0551, Chennai Airport, Chennai – 600 016.



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6. You are also directed to contact Senior Manager (E-E), Airport Maintenance Electrical Division-II, Operational Offices, Airports Authority of India, Chennai Airport immediately for the execution of 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.

Encl: Schedule of Work (05 Pages)

Yours faithfully,



J. DUJA NAYAK,
SM (Engg-Elect), AMED-II,
AAI/Chennai Airport.



**AIRPORTS AUTHORITY OF INDIA
CHENNAI AIRPORT :: CHENNAI - 600 016**

SCHEDULE OF WORK

Name of Work: Miscellaneous Capital Works as per Requirements. SH: SITC of LT Panels at various locations, Supply and Laying of LT Cables for various loads & other minor works etc. at Chennai Airport.

S. No.	Description	Qty	Rate	Amount
1	Supply of 4 core x 16 sq. mm XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1KV grade conforming to relevant IS 7098 Part 1 with upto date amendments etc. as required.	250 Mtr	215.00	53,750.00
2	Supply of 3½ core x 35 sq. mm XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1KV grade conforming to relevant IS 7098 Part 1 with upto date amendments etc. as required.	160 Mtr	320.00	51,200.00
3	Supply of 3½ core x 95 sq. mm XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1KV grade conforming to relevant IS 7098 Part 1 with upto date amendments etc. as required.	975 Mtr	728.00	7,09,800.00
4	Supply of 3½ core x 120sq. mm XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1KV grade conforming to relevant IS 7098 Part 1 with upto date amendments etc. as required.	645 Mtrs	912.00	5,88,240.00
5	Supply of 3½ core x 185 sq. mm XLPE insulated and PVC sheathed Aluminium conductor armoured power cable of 1.1KV grade conforming to relevant IS 7098 Part 1 with upto date amendments etc. as required.	325 Mtr	1,368.00	4,44,600.00
6	Supply and Laying of 75 mm dia PE 80 Grade PN 6 HDPE pipe including all accessories like socket, bend, couplers etc. complete with fitting and cutting, jointing etc. direct in ground (75 cm below ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc. complete as required.	502 Mtr	200.00	1,00,400.00
7	Providing, laying and fixing following dia G.I pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep) and re-filling etc. as required. a) 100 mm dia.	40 Mtr	500.00	20,000.00
8	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/DWC/HDPE pipe as required. a) Upto 35 sq. mm.	139 Mtr	15.00	2,085.00
9	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/DWC/HDPE pipe as required. a) Above 35 sq. mm and upto 95 sq. mm.	698 Mtr	20.00	13,960.00
10	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/DWC/HDPE pipe as required. a) Above 95 sq. mm and upto 185 sq. mm.	378 Mtr	20.00	7,560.00
11	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/DWC/HDPE pipe as required. a) Above 185 sq. mm and upto 400 sq. mm.	60 Mtr	20.00	1,200.00
12	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. a) Above 95 sq. mm and upto 185 sq. mm.	378 Mtr	15.00	5,670.00
13	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. a) Above 185 sq. mm and upto 400 sq. mm.	100 Mtr	15.00	1,500.00
14	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. a) Upto 35 sq. mm (clamped with 1mm thick saddle).	105 Mtr	50.00	5,250.00

S. No.	Description	Qty	Rate	Amount
15	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. a) Above 35 sq. mm and upto 95 sq. mm (clamped with 25x3mm MS flat clamp).	219 Mtr	60.00	13,140.00
16	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. a) Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp).	140 Mtr	50.00	7,000.00
17	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) 4 X 16 sq. mm	1 Set	50.00	50.00
18	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 Core x 35 Sq. mm	1 Set	1,000.00	1,000.00
19	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 Core x 95 Sq. mm	4 Set	1,000.00	4,000.00
20	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 Core x 120 Sq. mm	2 Set	1,200.00	2,400.00
21	Supplying and Making end termination with brass double compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required. a) 4 Core x 10 Sq. mm (25mm).	1 Each	350.00	350.00
22	Supplying and Making end termination with brass double compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required. a) 4 Core x 16 Sq. mm (28mm).	5 Each	350.00	1,750.00
23	Supplying and Making end termination with brass double compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required. a) 3½ Core x 35 Sq. mm (32mm).	8 Each	400.00	3,200.00
24	Supplying and Making end termination with brass double compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required. a) 3½ Core x 50 Sq. mm (35mm).	2 Each	400.00	800.00
25	Supplying and Making end termination with brass double compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required. a) 3½ Core x 95 Sq. mm (45mm).	16 Each	400.00	6,400.00
26	Supplying and Making end termination with brass double compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required. a) 3½ Core x 120 Sq. mm (45mm).	8 Each	400.00	3,200.00
27	Supplying and Making end termination with brass double compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required. a) 3½ Core x 185 Sq. mm (57mm).	15 Each	400.00	6,000.00

S. No.	Description	Qty	Rate	Amount
28	Supplying and Making end termination with brass double compression gland and aluminium lugs for following PVC insulated and PVC sheathed / XLPE insulated 1.1KV grade cables as required. a) 3½ Core x 300 Sq. mm (70mm).	2 Each	500.00	1,000.00
29	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but with charcoal/ coke and salt) as required.	11 Set	5,000.00	55,000.00
30	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. Wire in 15 mm dia G.I. pipe from earth electrode including connection with G.I. thimble, excavation and re-filling as required.	30 Mtr	50.00	1,500.00
31	Supply, Installation, Testing & Commissioning of MV Switch Board Outdoor type Feeder Pillar made out of 3mm thick CRCA Sheet Steel for outer shell (width not less than 450mm) and 2mm thick CRCA Sheet for inner partition, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing (bottom entry) suitable for operation at 433V, 3 Phase, 4 Wire, 50 Hz AC System complete with all accessories, interconnection, connection, earthing, painting, provided with bottom base channel of 100mm ISMC and locking arrangement including excavation for foundation, providing foundation, suitable RCC pedestal upto 900mm (450mm BGL and 450mm AGL), fixing of panel etc. complete as required and comprising of the following: For Incoming: a) Two Nos. 200 A, 50 KA, 4P MCCBs with Microprocessor Based Releases (L&T MTX 2.0/ Equivalent) for OC/SC/EF Protection and ROM as INCOMER with Resin Cast CT operated Digital Multifunction Meter (EM 6400 or Equivalent), ON/OFF/TRIP Indication Lamps, Phase Indication Lamps and Mechanical Castle Interlock (2 Lock + 1 Key) as required. b) One Set of 300 Amps Al. Bus Bars with at Par Neutral BUS BARS as required. For Outgoing : a) Two Nos. of 160 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases for Protection as Outgoing, with ON/OFF/TRIP Indication Lamps as required. b) Four Nos. of 100 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases for Protection as Outgoing, with ON/OFF/TRIP Indication Lamps as required.	1 Job	2,50,000.00	2,50,000.00
32	Supply, Installation, Testing & Commissioning of MV Switch Board Outdoor type Feeder Pillar made out of 3mm thick CRCA Sheet Steel for outer shell (width not less than 450mm) and 2mm thick CRCA Sheet for inner partition, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing (bottom entry) suitable for operation at 433V, 3 Phase, 4 Wire, 50 Hz AC System complete with all accessories, interconnection, connection, earthing, painting, provided with bottom base channel of 100mm ISMC and locking arrangement including excavation for foundation, providing foundation, suitable RCC pedestal upto 900mm (450mm BGL and 450mm AGL), fixing of panel etc. complete as required and comprising of the following: For Incoming: a) One No. 250 A, 36 KA, 4P MCCBs with Microprocessor Based Releases for OC/SC/EF Protection as INCOMER with Resin Cast CT operated Digital Multifunction Meter (EM 6400 of Conserve/Equivalent), ON/OFF/TRIP Indication Lamps and Phase Indication Lamps etc. as required. b) One Set of 400 Amps Al. Bus Bars with at Par Neutral BUS BARS as required. For Outgoing: a) Two Nos. of 200 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases for Protection as Outgoing, with ON/OFF/TRIP Indication Lamps as required. b) Two Nos. of 160 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases for Protection as Outgoing, with ON/OFF/TRIP Indication Lamps as required.	1 Job	2,50,000.00	2,50,000.00

S. No.	Description	Qty	Rate	Amount
33	Supply, Installation, Testing & Commissioning of MV Switch Board Outdoor type Feeder Pillar made out of 3mm thick CRCA Sheet Steel for outer shell (width not less than 450mm) and 2mm thick CRCA Sheet for inner partition, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing (bottom entry) suitable for operation at 433V, 3 Phase, 4 Wire, 50 Hz AC System complete with all accessories, interconnection, connection, earthing, painting, provided with bottom base channel of 100mm ISMC and locking arrangement including excavation for foundation, providing foundation, suitable RCC pedestal upto 900mm (450mm BGL and 450mm AGL), fixing of panel etc. complete as required and comprising of the following: For Incoming: a) One No. 400 A, 36 KA, 4P Change Over Switch as INCOMER with Resin Cast CT operated Digital Multifunction Meter (EM6400 or equivalent) and Phase Indication Lamps etc. as required. b) One Set of 600 Amps Al. Bus Bars with at Par Neutral BUS BARS as required. For Outgoing: a) Two Nos. of 200 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases for Protection as Outgoing, with ON/OFF/TRIP Indication Lamps as required. b) Two Nos. of 160 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases for Protection as Outgoing, with ON/OFF/TRIP Indication Lamps as required.	1 Job	2,50,000.00	2,50,000.00
34	Supply, Installation, Testing & Commissioning of MV Switch Board Outdoor type Feeder Pillar made out of 3mm thick CRCA Sheet Steel for outer shell (width not less than 450mm) and 2mm thick CRCA Sheet for inner partition, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing (bottom entry) suitable for operation at 433V, 3 Phase, 4 Wire, 50 Hz AC System complete with all accessories, interconnection, connection, earthing, painting, provided with bottom base channel of 100mm ISMC and locking arrangement including excavation for foundation, providing foundation, suitable RCC pedestal upto 900mm (450mm BGL and 450mm AGL), fixing of panel etc. complete as required and comprising of the following: For Incoming: a) One No. 200 A, 36 KA, 4P MCCBs with Microprocessor Based Releases for OC/SC/EF Protection as INCOMERS with Resin Cast CT operated Digital Multifunction Meter (EM6400 or equivalent), ON/OFF/TRIP Indication Lamps and Phase Indication Lamps etc. as required. b) One Set of 300 Amps Al. Bus Bars with at Par Neutral BUS BARS as required. For Outgoing: a) Six Nos. of 100 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases for Protection as Outgoing, with ON/OFF/TRIP Indication Lamps as required. b) Timer switch – 01 No.	1 Job	2,50,000.00	2,50,000.00

S. No.	Description	Qty	Rate	Amount
35	Supply, Installation, Testing & Commissioning of MV Switch Board Outdoor type Feeder Pillar made out of 3mm thick CRCA Sheet Steel for outer shell (width not less than 450mm) and 2mm thick CRCA Sheet for inner partition, dust tight, vermin proof, totally enclosed, cubicle type, floor mounting, free standing (bottom entry) suitable for operation at 433V, 3 Phase, 4 Wire, 50 Hz AC System complete with all accessories, interconnection, connection, earthing, painting, provided with bottom base channel of 100mm ISMC and locking arrangement including excavation for foundation, providing foundation, suitable RCC pedestal upto 900mm (450mm BGL and 450mm AGL), fixing of panel etc. complete as required and comprising of the following: For Incoming: One No. 200 A, 36 KA, 4P MCCBs with Microprocessor Based Releases for OC/SC/EF Protection as INCOMERS with Resin Cast CT operated Digital Multifunction Meter (EM 6400 or equivalent), ON/OFF/TRIP Indication Lamps and Phase Indication Lamps etc. as required. b) One Set of 300 Amps Al. Bus Bars with at Par Neutral BUS BARS as required. For Outgoing: a) 63A FP B-Curve MCB – 01 No. b) 40A FP B-Curve MCB – 08 Nos c) 20A DP B-Curve MCB – 18 Nos	1 Job	2,50,000.00	2,50,000.00
36	Shifting of Existing outdoor LT panel of size 1000mm X 500 mm including providing bottom base channel of 100mm ISMC, excavation for foundation, providing foundation, suitable RCC pedestal upto 900mm (450mm BGL and 450mm AGL), fixing of panel etc. complete as required.	6 Job	4,250.00	25,500.00
37	Supply and fixing of 250 A, 4P, 50KA, Four Pole MCCB (Icc=Icu) as TIE LINE with inbuilt Overload and short circuit fault Protection with microprocessor based release and provided with three Nos. Cast resin of suitable rating CTs with Digital Multifunction Meter (EM6400 or equivalent), ON/OFF/Trip LED Indication lamp and phase Indication lamp, in the existing LT Distribution panel at switch rooms of NITC/NDTC i/c providing 400A busbar link from MCCB to existing Busbar and new MCCB to Cable Alley with all accessories, Providing Mechanical Interlock, providing necessary materials for interconnection, connections, earthing and painting of door etc. as required.	12 No	25,000.00	3,00,000.00
38	Supply and fixing of 160 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases in existing Panel including dismantling the old MCCB, disconnections and connections with busbar and cable alley etc. as required.	1 No	20,000.00	20,000.00
39	Supply and fixing of 200 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases in existing Panel including dismantling the old MCCB, disconnections and connections with busbar and cable alley etc. as required.	1 No	25,000.00	25,000.00
40	Supply and fixing of 250 A, 36 KA, 4P MCCBs with Thermal Magnetic Releases in existing Panel including dismantling the old MCCB, disconnections and connections with busbar and cable alley etc. as required.	1 No	30,000.00	30,000.00
			Total Rs.	37,62,505.00

(Rupees Thirty Seven Lakhs Sixty Two Thousand Five Hundred and Five Only) Excluding GST


 SM(E-E), AMED-II 12/12/24
 AAI/Chennai Airport