



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

No: AAI/RHQ-SR/ENGG/AGM(E-E)/Vellore/WO-02/DGCA/24-25 Date: 28.10.2024

M/s. Surbhi Association,
E-17-B Surendra Vihar,
Bagmugaliya Hoshangabad Road,
Bhopal- 462043

Name of Work: Compliance of DGCA observations and other miscellaneous works
at Vellore Airport. SH: Electrical works.

REF: 1. AAI E-Bid No: **2024_AAI_205737**
2. Tender (Price Bid) opened: **17.09.2024**

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.36,80,290/- (Rupees Thirty Six Lakhs Eighty Thousand Two Hundred and Ninety Only)** Plus applicable GST @ 18% which is 32% below the estimated cost put to tender of **Rs. 54,20,341/-** 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 **06.11.2024** 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. 3,68,029/- (Rupees Three Lakhs Sixty Eight Thousand Twenty 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), 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 **04 (Four) 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,

28/10/24
Asst. General Manager Engg (E)
AAI, RHQ-SR, Chennai Airport

SCHEDULE OF QUANTITIES

Name of Work: Compliance of DGCA observations and other miscellaneous works at Vellore Airport. SH: Electrical works

Item no	Item Description	QTY	UNIT	Rate (Rs.)	Amount (Rs.)
	SH I : Supply of cables, CCRs, DBs etc.,				
1.01	Supply of following size 5KV grade stranded copper conductor single core PVC insulated, PVC sheathed unshielded, antitermite and rodent treated, airport lighting UG cable generally confirming to IS : 1554-Part - II with up to date amendments and as specified in particular specifications of the following sizes as required.				
	2C x 6 sqmm	2400	Mtrs	230.00	552000.00
1.02	Supply of following size 5KV grade stranded copper conductor single core PVC insulated, PVC sheathed unshielded, antitermite and rodent treated, airport lighting UG cable generally confirming to IS : 1554-Part - II with up to date amendments and as specified in particular specifications of the following sizes as required.				
	1C x 6 sqmm	300	Mtrs	120.00	36000.00
1.03	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.				
A	Supply of cable 16 sqmm	804	Mtrs	135.00	108540.00
B	Supply of cable 35 sqmm	252	Mtrs	200.00	50400.00
1.04	Supply of 1.1 KV grade 10C x 2.5 Sq.mm. armoured Copper conductor PVC insulated and PVC sheathed control cable confirming to IS - 1554 (Part - I) with upto date amendments as required.	50	Mtrs	350.00	17500.00
1.05	Supply of FAA Compliant indoor, aircooled Microprocessor Based Constant Current Regulators of thyristor controlled electronic type suitable for use on 230 V with +/- 10 % variation, 50 Hz input system with output power of 4.0 kW , 5 steps variation of current output (2.8 A, 3.4 A, 4.1 A, 5.2 A, 6.6 A) suitable for local and remote control operation with 24 V / 48 V integral control supply for use in series Airfield Lighting complete with over current, over voltage, earth fault/earth leakage and open circuit protection, provision of output digital ammeter of (0- 20A) range, positive feed back indication system, transformers, relays, contactors, inductors, capacitors and suitable transient suppression/surge diverters on output etc., as required.	3	Nos.	190000	570000
1.06	Supply of complete set of Spare cards suitable for 1 No. of 4 KW CCR.	1	Set	85000.00	85000.00
1.07	Supply of MS transformer housing box cylindrical shape of size 330mm Dia, 400mm depth, made out of 10mm thick top cover with clear hole of 216mm dia and 6 Nos. M10 size threaded hole for fixing the base plate and bolts and at 4 Sides and bottom of box made out of 8 mm thick MS sheet, having hole at two side to receive 50 mm dia '8" Class Gt pipe and check nuts, Earthing Provision for 2 Nos. of Cadmium plated bolts with nuts and Washers, drain hole at the bottom suitably tapped to receive 15mm dia, 'B' class GI pipe including paint and two coat of black paint finish etc., as required.	4	Nos.	5000	20000
1.08	Supply of 10 mm thick round MS dummy plate of dia 330 mm with 6 Nos, M 10 holes on dia 260 PCD suitable for fixing on the existing transformer housing box including washers, gaskets, nuts and bolts and painting complete as required.	3	Nos.	800.00	2400.00

9

Item no	Item Description	QTY	UNIT	Rate (Rs.)	Amount (Rs.)
1.09	Supply of Elevated type Unidirectional High Intensity Runway End Light fitting suitable for use with 200W Halogen lamp consists of Halogen Lamp, Lens supporting mechanism, Central column assembly, Breakable Coupling, two pin secondary Connecting Lead, Base Plate with 6 Nos, M-10 SS bolts with spring and plate washers, Rubber gasket and all other accessories and meeting ICAO requirements complete as required.	2	Nos.	8500.00	17000.00
1.1	Supply of 5 KV grade plug and receptable type-I class 'B' connector suitable for field attachment with following size of 5 KV grade PVC insulated, PVC sheathed single core copper conductor cable confirming to the relevant IS specification and particular specification attached etc complete as required.				
A	6 Sqmm	50	Nos.	450.00	22500.00
1.11	Supply of following rating of 5KV grade 50 Hz series type isolating transformer encapsulated in polyester resin finally moulded with neoprene type rubber with primary & Secondary connection s as specified in particular specifications complete as required.				
A	200W, 6.6A/6.6A (suitable for Edge light, End Light and threshold light fittings)	25	Nos.	5000.00	125000.00
1.12	Supply of Two pin Secondary plug assembly of 2.5 meter length suitable for connection between secondary of isolating transformer to PAPI fitting.	25	Nos.	1200.00	30000.00
1.13	Supply of Flood Light, LED luminaire with powder coated, pressure die-cast, aluminium housing with overall sytem wattage not exceeding 250 W and having minimum 25000 lumens, IP 66, CCT 5700 to 6500 K, CRI 70 and suitable for operation on 230V +/- 10% AC supply as required.	30	Nos.	7500.00	225000.00
1.14	Supply of nominal 2.5 mm thick (width 1 mtr) PVC Synthetic, electric insulated mats conforming to IS 15652 2006 as required.	3	Sq.Mtrs	1000.00	3000.00
1.15	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.) 8 way (4 + 24), Double door	1	Nos.	8500.00	8500.00
1.16	Supplying and fixing following way, horizontal 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	Nos.	3500.00	3500.00
1.17	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	10	Nos.	150.00	1500.00
1.18	Supplying and fixing following rating, four pole, 415 volts, MCB in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 A	2	Nos.	1850.00	3700.00

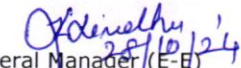
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Item no	Item Description	QTY	UNIT	Rate (Rs.)	Amount (Rs.)
1.19	Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required. Triple pole	3	Nos.	1150.00	3450.00
1.20	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 milli amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 A	2	Nos.	3500.00	7000.00
1.21	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	10	Nos.	10.00	100.00
1.22	Supplying and fixing of following size surface mounting, PVC Junction box outdoor type, (IP 65) with suitable 4 way 16A terminal connector, din bar for mounting MCB'S and 6 Amps single pole MCB etc., Complete as required .	15	Nos.	1500.00	22500.00
1.23	Supply of 3 Core 2.5 Sq.mm PVC insulated PVC sheathed FRLS un-armoured Flexible round copper Cable conforming to IS 694:1990 etc., complete as required.	200	Meter	110.00	22000.00
	SH II : SITC of LT Panel & ACs, CCRs, cable laying etc.,				
2.01	Supply, Installation, Testing and Commissioning of MV Switch Board of 4B construction conforming to IEC 61439 made of 14 SWG CRCA Sheet Steel, dust tight, vermin proof, Totally enclosed, cubicle type, floor mounting, free standing, extensible on both sides, suitable for indoor operation at 415 V, 3 Phase, 4 Wire, 50 Hz, A.C. System complete with all accessories, interconnection, connection, earthing, painting, etc., as required and comprising of the following: A) Two Nos. of 400 A, 50 KA, 4P MCCBs with Microprocessor Based Releases for OC/SC/EF Protection as INCOMERS with ON/OFF/TRIP Indication Lamps and Phase Indication Lamps, Interlocking Facility with Incomers and Buscouplers as required. B) One No. 400 A, 50 KA, 4P MCCBs as Bus Coupler with ON/OFF Indication Lamps as required. C) Two Nos. of 250 A, 35 KA, 4P MCCB with Thermal Magnetic Releases for Protection as Outgoing, C.T. operated Digital VAF Meter, ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required. D) Two Nos. of 125 A, 35 KA, 4P MCCB with Thermal Magnetic Releases for Protection as Outgoing, C.T. operated Digital VAF Meter, ON/OFF/TRIP Indication Lamps and Phase Indication Lamps as required. E) 2 Nos. of 100 A, 35 KA, 4P MCCB with Thermal Magnetic Releases for Protection as Outgoing, ON/OFF/TRIP Indication Lamps as required. F) 2 Nos. of 63 A, 35 KA, 4P MCCB with Thermal Magnetic Releases for Protection as Outgoing, ON/OFF/TRIP Indication Lamps as required. G) One Set of 600 Amps Al. Bus Bars with at Par Neutral BUS BARS as required. H) All accessories such as fuses, auxillary contactors, auxillary switches, etc. including providing Empty Cubicle Space (2 Nos.) as required. ALL AS ABOVE A To H	1	Job	505000	505000

Item no	Item Description	QTY	UNIT	Rate (Rs.)	Amount (Rs.)
2.02	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.	2	Job	42000.00	84000.00
2.03	Installation, testing and commissioning of indoor type air cooled thyristor controlled electronic type Constant current Regulator (CCR) of 4 KW capacity etc., complete as required.	3	Job	12000.00	36000.00
2.04	Installation of Transformer Housing box with 1:2:4 cement concrete all around 150 mm and base concrete 1:3:6 of 100 mm including excavation of earth, disposal of material, providing and fixing 300mm long 1/2' dia "B" class GI pipe with check nut for drainage of water including refilling, etc., complete as required.	2	Job	1500.00	3000.00
2.05	Supplying and laying of 50 mm OD HDPE Pipe of PE 80 PN 6 ISI Marked along with all accessories like coupler conforming to IS 4984 complete with fitting and cutting, jointing etc., direct in ground (75 cm below the ground level) including excavation and refilling the trench but excluding sand cushioning and protective covering etc., as required.	2800	Mtrs	150.00	420000.00
2.06	Laying of one number XLPE/PVC insulated and PVC sheathed up to 5 KV grade cable of following size in the existing RCC/HUME/METAL/HDPE PIPE as required. a) upto 35 Sqmm	2000	Mtrs	20.00	40000.00
2.07	Laying of one number XLPE/PVC insulated and PVC sheathed up to 5 KV grade cable of following size in the existing masonry open duct as required. a)Upto 35 sq. mm	200	Mtrs	20.00	4000.00
2.08	Laying of one number XLPE/ PVC insulated and PVC sheathed 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	50	Mtrs	50.00	2500.00
2.09	Making field connections by crimping 6 sq,mm plug and receptacle with the existing 6 sq,mm single core PVC copper conductor PVC insulated, PVC sheathed cable including filling with gap with water sealant material, providing HT insulation tape, over PVC tape etc. required.	20	Nos.	100.00	2000.00
2.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of XLPE/ PVC insulated and PVC sheathed aluminium conductor cable of 1.1 KV grade as required. 4 x 16 Smm (28 mm)	30	Nos.	200.00	6000.00
2.11	Supplying and making end termination with brass compression gland and aluminium lugs for following size of XLPE/ PVC insulated and PVC sheathed aluminium conductor cable of 1.1 KV grade as required. 3.5 x 35 Sqmm (32 mm)	12	Mtrs	300.00	3600.00
2.12	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 300 sq. mm (70mm)	6	Nos.	1000.00	6000.00
2.13	Dismantling of existing RCC foundation of PAPI unit including removing the debris etc., compled as required.	8	Job	1500.00	12000.00

Item no	Item Description	QTY	UNIT	Rate (Rs.)	Amount (Rs.)
2.14	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 230 V $\pm 10\%$ 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	5	Nos.	42000	210000
2.15	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				
A	For 1.5 TR Split Air conditioner (beyond 3 meters per Split AC unit)	130	Mtrs	1000.00	130000.00
2.16	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.				
b)	4 KVA stabilizer for 1.5 TR Split AC	5	Nos.	3000.00	15000.00
2.17	Supplying & laying of condensate water drain pipe made of PVC having size of 25mm dia, for additional requirement for AC units i/c necessary clamps, screws, supports, etc as per specifications complete as required.	100	Mtrs	50.00	5000.00
SH III : Internal wiring					
3.01	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 steel 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	10	Nos.	1200.00	12000.00
3.02	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection etc. as required.	5	Nos.	300.00	1500.00
3.03	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required.	5	Nos.	400.00	2000.00
3.04	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	60	Mtrs	280.00	16800.00
3.05	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	200	Mtrs	310.00	62000.00
3.06	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel conduit as required. 3 x 4 sq. mm	50	Mtrs	140.00	7000.00

Item no	Item Description	QTY	UNIT	Rate (Rs.)	Amount (Rs.)
3.07	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.	5	Nos.	900.00	4500.00
3.08	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 excceding 36W and having minimum 3600 Lumens, IP20, CRI 80 and suitable for operation on 230V +/- 10% AC supply etc., complete as required.	10	Nos.	1950.00	19500.00
3.09	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.	8	Nos.	100.00	800.00
SH IV Earthing					
4.01	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.	4	Nos.	6000.00	24000.00
4.02	Providing and fixing 25 mm x 5 mm G.I strip on surface or in recess for connections etc. as required	50	Mtrs	150.00	7500.00
4.03	Providing and Fixing 6 SWG dia G I wire for ioop earthing along with exist ng cable as required	100	Mtrs	20.00	2000.00
SH V : Providing Cable Chamber as required as detailed below:					
5.01	Constructing masonry Chamber 120x120x100 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100 mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:1.5:3 mix (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size), including necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick,finished with a floating coat of neat cement complete as per standard design :With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	20	Nos.	5000	100000
NET TOTAL AMOUNT IN RS					3680290.00
ADD GST @ 18%					662452.20
TOTAL					4342742.20
SAY					4342742.00


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