



No.: AAI/AGT/ENGG(E)/Turnpad/W.O-10/2025-26/109-115 Date: 05/07/2025

To,

M/s Vardhman Airports Solutions Pvt. Ltd.

1st & 2nd Floor, Plot No. 13/C & 13/3,

Rama Road Side, Industrial Area,

Najafgarh Road, Delhi-110015, India

Name of Work: Provision of inset LED type Runway Turnpad Lights and other associated GLF works at M.B.B Airport, Agartala.

Ref : Tender ID No. - 2025_AAI_234716_1

Dear Sir,

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 **Rs. 2,59,31,621/-** (Rupees Two Crore Fifty-Nine Lakhs Thirty-one Thousand Six Hundred and Twenty-one only) (excluding GST), which is 19.64% below the Estimated cost put to tender of Rs. 3,22,69,922/-.

Dy. General Manager (Engg-E), AAI, MBB Airport, Agartala shall be the Engineer-In-Charge of the work. You are requested to attend the office of the Dy. General Manager (Engg-E), AAI, MBB Airport, Agartala by **20-07-2025** to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value **Rs.100/-** (Rupees One hundred only) and the cost of the stamp paper shall be borne by you.

The earnest money deposit amount of **Rs. 9,68,098/-** (Rupees Nine Lakhs Sixty-eight Thousand and Ninety-eight only) received along with your tender will be treated and converted as part of security deposit as per clause 1(A) of tender contract document. Please deposit **Rs. 16,25,064/-** (Rupees Sixteen Lakhs Twenty-five Thousand and Sixty-four 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 bill as per clause 1(A) under GCC of the contract document

You are requested to comply with the provisions of contract labour (Regulation and abolition) Act 1970 and Contract labour (Regulation and abolition) Central rules 1971, Minimum wages Act, Child labour (Prohibition & Regulation) Act 1986, Construction of workers (Regulation of Employment and Condition of Service) Act 1996, Building and other construction Workers Welfare Cess Act 1996 as specified in Clause 19 of GCC of tender and rules of Central and State Governments.

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Security clearance & Security programme are to be duly obtained/complied for carrying out the work.

You are also directed to contact Sr. Manager (Engg-E), AAI, MBB Airport, Agartala, immediately who will arrange to hand over the site to you.

Please note that the time allowed for carrying out the work is **06 (Six) months**, which shall be reckoned from 10th day after issue of this order.

The **Defect Liability Period shall be 12 months** from the date of completion of the work and handing over and acceptance of the system by AAI.

Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-charge.

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,

Encl: Schedule of Quantities
Pages-08

Vibha Saha 5-7-25
(Vibha Saha)

Dy. Gen. Mgr. (Engg.-E)

For and on behalf of Chairman,
Airports Authority of India.

SCHEDULE OF QUANTITIES

Name of work: Provision of inset LED type Runway Turnpad Lights and other associated GLF works at M.B.B Airport, Agartala.

Amounts excluding GST

Item No.	Item Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
1	Conduction of detailed site survey including taking coordinates on Turnpad Centerline markings on Runway through Total Station and GPS, designing the Turnpad Centerline lights location, planning cable route and marking the same in initial drawing and showing cable route in as-built final drawing using GPS coordinates and from nearby landmarks using AutoCad/any suitable drawing tool and submission of the same in soft as well as hard version etc. complete as required and as specified in tender document.	1	Job	1,50,000.00	1,50,000.00
2	Supply of LED unidirectional inset type green runway turnpad light fitting with 05 years warranty, including supply of shallow base for aviation visual aids requirements, LED module, prism assembly, optical assembly, 'O' ring seal (internal and external), valve for watertightness test, lower cover, suitable electronic driver, plug, gasket, bolts and all other standard accessories complete and fixture suitable for operation on 2.8 - 6.6 amps as per FAA/ICAO/DGCA CAR and conforming to technical specifications etc. complete as required.	120	Each	42,000.00	50,40,000.00
3	Design, Manufacturing, Supply, Installation, Testing and Commissioning of indoor, natural air cooled, microprocessor based thyristor controlled Constant Current Regulator (CCR) with following output power at 6.6 Amps., suitable for use on 230/415 V $\pm$ 10%, 50 Hz input AC supply with 5 steps output current variation (2.8, 3.4, 4.1, 5.2 and 6.6 Amp), local and remote control operation, over current, open circuit and earth fault protections, digital ammeter for output current, digital voltmeter for input voltage, earth leakage meter, insulation resistance monitor, positive back indication, LCD display, terminations of input & output cables, earth connection from existing earth and all other standard accessories required as per ICAO/ DGCA CAR and conforming to technical specifications etc. complete as required and suitable to be operated, controlled and monitored via existing NASU make ALCMS System. (Note: Integration of CCR with ALCMS along with necessary modification in software/hardware of ALCMS for control of the circuits from existing ATC Touchscreen Remote Control Panel and display of the circuits in the existing LED Monitor in ATC Tower and Power House as required, is included in the scope of commissioning)				
3.01	4 kW	2	Job	2,73,585.00	5,47,170.00
3.02	2.5 kW	4	Job	2,43,225.00	9,72,900.00

Item No.	Item Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
4	Supply of 63 mm Outer dia HDPE (High Density Polyethylene) pipe (PE80, PN10) along with all accessories like socket, bend, couplers, seal rings, end cap etc. conforming to IS 4984: 1995 and amended upto date etc. complete as required.	16500	Mtr.	187.00	30,85,500.00
5	Supply of 200 mm Outer dia HDPE (High Density Polyethylene) pipe (PE80, PN10) along with all accessories like socket, bend, couplers, seal rings, end cap etc. conforming to IS 4984: 1995 and amended upto date etc. complete as required.	1000	Mtr.	1,575.00	15,75,000.00
6	Supply of 1 X 6 sqmm, 5 KV grade copper conductor, XLPE insulated, PVC sheathed, single core, unscreened, non-shielded, unarmoured anti-termite and anti-rodent treated underground Airfield Lighting cable conforming to IS:7098 part-II as amended up to date and as per technical specifications etc. complete as required.	28000	Mtr.	120.00	33,60,000.00
7	Supply of 2 x 4 sqmm 1.1 kV/ 600 V grade, copper conductor, EPR insulated, PCP/CPE/TCP sheathed, unscreened, non-shielded, unarmoured anti-termite and anti-rodent treated underground secondary cable conforming to IS:9968-1 as amended up to date and as per technical specifications etc. complete as required.	5000	Mtr.	206.00	10,30,000.00
8	Supply of 7 X 2.5 sqmm, 1.1 KV grade stranded copper conductor, XLPE insulated, PVC sheathed (inner & outer), armoured multi-core FRLSH LT Control Cable conforming to IS:7098 part-I as amended up to date and as per technical specifications etc. complete as required.	2000	Mtr.	304.00	6,08,000.00
9	Supply of suitable rating (certified by OEM of Item No.2 above), 6.6/6.6 Amps, 5 KV grade, 50 Hz, series Isolating Transformer encapsulated in polyester resin, finally moulded in neoprene/santoprene type rubber with primary and secondary connectors etc and all other standard accessories required as per FAA/ICAO/DGCA CAR and conforming to technical specifications etc. complete as required.	120	Each	3,818.00	4,58,160.00
10	Fabrication & Supply of C.I. Isolating Transformer housing box, water tight round type with suitable rubber gasket, metal container of outside dia 330 mm, height 450 mm made of 10 mm thick cast iron moulding all round, except the top surface, which is 15 mm thick cast iron moulding having a clear opening of 220 mm at the top surface and 6 Nos. M10 tapped holes at the hole centre of 260 mm to receive cover plate and bolts. The box should have three/two nos. holes or as per site requirement on the periphery centre, 75 mm/suitable height as per site requirement, above bottom surface suitable to receive 63 mm dia HDPE pipes or others as required. The box should have two SS earth bolts of M10 x 30 mm tapped inside near the hole (100 mm above from the base) and having a drain hole at the bottom suitably tapped to receive 15 mm dia, 'B' class GI pipe. The box to be painted with one coat of primer & two coats of black enamel paint The C.I. mould of foundry grade pig iron shall conform to latest IS.	120	Each	7,009.00	8,41,080.00

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Item No.	Item Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
11	Supply of cover plates of size 330 mm dia fabricated from 10mm thick MS plate, suitable for Isolating transformer housing boxes including making 6 nos. holes on the edges, drilling, tapping, finishing, painting with one coat primer and two coats of black enamel paint etc. as per technical specifications, complete as required.	250	Each	1,028.00	2,57,000.00
12	Supply of 6 sqmm, 5 kV grade Plug and Receptacle, Type-I, Class 'B' connector kit suitable for field attachment with 5 kV grade 1 x 6 sqmm primary cable as per FAA/ICAO/DGCA CAR and conforming to technical specifications etc. complete as required.	150	Set	514.00	77,100.00
13	Supply of 600 V grade Plug & Receptacle, Type-II, Class 'B' connector kit suitable for field attachment with 600 V grade 2 x 4 sqmm secondary cable as per FAA/ICAO/DGCA CAR and conforming to technical specifications etc. complete as required.	120	Set	514.00	61,680.00
14	Supply of 1 X 4 sq.mm FRLSH PVC insulated copper conductor single core wire for end to end termination for earthing, preferably green colour conforming to IS:694 as amended up to date and technical specifications etc. complete as required.	4000	Mtr.	54.00	2,16,000.00
15	Fabrication & Supply of M.S. underground cable looping box of size 750 mm (L) x 360 mm (W) x 400 mm (H) made out of 10 mm thick MS sheet on four sides, 10 mm thick MS sheet on bottom, Cover Plate made out of 12.5 mm thick MS sheet and containing 12 nos. threaded holes for fixing the same with box, with a provision of two nos holes or as per site requirement on the periphery centre, 200 mm/suitable height as per site requirement, above bottom surface suitable to receive 63 mm dia HDPE pipes or others as required; The box should have two SS earth bolts of M10 x 30 mm tapped inside near the hole (100 mm above from the base) and having a drain hole at the bottom suitably tapped to receive 15 mm dia, 'B' class GI pipe, painting of box with one coat of primer & two coats of black enamel paint etc. complete as required and as per enclosed specifications.	42	Each	16,020.00	6,72,840.00
16	Fabrication & Supply of M.S. underground cable looping box of size 750 mm (L) x 360 mm (W) x 400 mm (H) made out of 10 mm thick MS sheet on four sides, 10 mm thick MS sheet on bottom, Cover Plate made out of 12.5 mm thick MS sheet and containing 12 nos. threaded holes for fixing the same with box, with a provision of four nos holes or as per site requirement on the periphery centre, 200 mm/suitable height as per site requirement, above bottom surface suitable to receive 63 mm dia HDPE pipes or others as required; 4 mm thick removable MS partition inside the box at the middle, parallel to the 360 mm side and providing slot for fixing the partition inside box; The box should have two SS earth bolts of M10 x 30 mm tapped inside near the hole (100 mm above from the base) and having a drain hole at the bottom suitably tapped to receive 15 mm dia, 'B' class GI pipe, painting of box with one coat of primer & two coats of black enamel paint etc. complete as required and as per enclosed specifications.	10	Each	15,620.00	1,56,200.00

Item No.	Item Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
17	Installation, testing and commissioning of inset type Runway Turnpad Light fitting with core cutting, aligning and setting i/c providing sealing material and installation of isolating transformer, crimping/jointing of secondary plug & receptacles, connections, earthing etc. and includes supply of all accessories/materials required for commissioning excluding fitting, secondary lead, isolating transformer and plug & receptacles, conforming to technical specifications etc. complete as required.	105	Job	5,750.00	6,03,750.00
18	Laying of 01(one) no. Secondary Cable along with 01(one) no. 1x4 sqmm. wire for earthing, in Runway Pavement at suitable depth (as per site requirement upto 0.18 m) including Kerf cutting by suitable cutter machine, binding the secondary cable with earth wire and covering the same with cotton tape for protection as per site requirement and as per direction of Engineer-in-Charge, making end termination of earth wire with shallow base of inset fitting and isolating transformer housing box, cleaning, filling the gap with backer rod and suitable sealing material (as per site requirement) above the cable, finishing, making good the runway surface and matching the same with existing runway surface level, painting the surface (if needed), cleaning the area etc. complete as required.	3800	Mtr.	300.00	11,40,000.00
19	Laying of 63 mm dia HDPE pipe along with all accessories like socket, bend, couplers, seal rings etc. complete with fitting and cutting, jointing etc. direct in ground (upto 750 mm below ground level) with excavation of cable trench, getting out the excavated soil, dressing of sides, refilling the trench with excavated soil after laying of HDPE pipe, ramming and disposal of surplus excavated soil as per site requirement etc., complete as required, conforming to technical specifications and complete as required at site.	14850	Mtr.	100.00	14,85,000.00
20	Laying of 200 mm dia HDPE pipe alongwith its necessary accessories like coupler, end plugs etc below the ground (i/e Road crossing, Apron, Taxiway, Runway Crossing etc.) at a depth of 1.5 m to 3.5 m through Horizontal Directional Drilling (HDD) etc. complete as required.	980	Mtr	1,000.00	9,80,000.00
21	Laying of 63 mm dia HDPE pipe along with all accessories like socket, bend, couplers, seal rings etc. complete with fitting and cutting, jointing etc. in the existing HDPE/HUME pipe etc., conforming to technical specifications and complete as required at site.	1515	Mtr	15.00	22,725.00
22	Laying of 63 mm dia HDPE Pipe along with all accessories like socket/ couplers, seal rings etc. complete with fitting and cutting, jointing etc. by cutting of road /pavement/concrete etc. up to 75cm depth i/c making good the surface by providing cement concrete (1:2:4) etc. complete as required at site.	120	Mtr.	450.00	54,000.00
23	End Termination of LT Control cable at Junction Box including making connection through proper crimping/soldering, covering the exposed cable with heat shrink tube, providing copper lugs and gland etc. complete as required at site.	2	Job	1,500.00	3,000.00

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Item No.	Item Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
24	Laying of one number 1 x 6 sqmm 5 KV grade Airfield lighting cable/ 7 x 2.5 sqmm LT Control Cable in the existing HDPE pipe etc. conforming to technical specifications and complete as required at site.	28000	Mtr	12.00	3,36,000.00
25	Installation of C.I. Transformer housing box including necessary excavation of soil, connecting existing pipes along with existing cables at the pipe entry holes, providing 100 mm thick 1:3:6 base concrete at the base, providing cement concrete 1:2:4 150 mm thick all around the housing box except at the top and bottom, providing 1 no. 300 mm long, 15 mm dia, B class GI pipe for drain and fitting the same at bottom hole, refilling disposing off surplus earth, including centering & shuttering etc. as required, fixing cover plate with 6 nos. M-10 Stainless Steel bolts etc. conforming to technical specifications and complete as required at site.	110	Job	2,400.00	2,64,000.00
26	Installation of MS cable looping box of size 750 mm (L) x 360 mm (W) x 400 mm (H) in soil by necessary soil excavation, connecting existing pipes along with existing cables at the pipe entry holes and providing cement concrete of ratio 1:2:4 all around & 1:3:6 at bottom of the box of 100 mm thick respectively, making pedestal of 300mm brick soling & providing 100mm thick cement concrete of 1:2:4 all around the box over brick soling by making suitable slope, providing 1 no. 300 mm long, 15 mm dia, B class GI pipe for drain and fitting the same at bottom hole, refilling disposing off surplus earth, including centering & shuttering etc. as required, fixing cover plate with 12 nos. M-10 Stainless Steel bolts etc. conforming to technical specifications and complete as required at site.	52	Job	2,800.00	1,45,600.00
27	Writing of maximum 2 inch size letters/numbers on the surface of cover plates of housing boxes/cable looping boxes etc. as required by suitable paint of White colour.	1700	Each	60.00	1,02,000.00
28	Construction of Masonry Chamber (Outer Dimension : 1.5m (L) x 1.5m (B) x 1m (H)) by excavation of soft soil including dressing of sides and ramming of bottoms, getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 metres, dry brick pitching at bottom (i/c supply of bricks), Providing & laying in position 1:2:4 cement concrete (1 cement : 2 course sand : 4 graded stone aggregate 20mm. nominal size) over brick soling as per site requirement, Providing brick work (in width 225 mm or more) with F.P.S bricks of class designation of 7.5 in cement mortar 1:4 (1 cement: 4 coarse sand) in all levels, Providing & laying 12mm thick cement plaster of mix 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement etc. as required and providing RCC cover of thickness 150 mm etc. complete as required. (Note: The design of Cover should be such that it is maintenance friendly and the same to be approved by Engineer-in-Charge prior to installation at site)	2	Job	12,000.00	24,000.00

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Item No.	Item Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
29	Making connection of 5 KV grade, 1 x 6 Sq.mm Copper conductor primary cable with plug & receptacle (but excluding cost of plug & receptacles) including filling the gap with water sealed material applying HT and PVC insulation tape of reputed make etc., conforming to technical specifications and complete as required at site.	130	Job	100.00	13,000.00
30	Supply and Installation of Cable Route Marker of top size 40 cm X 40 cm and having bottom size 60 cm X 60 cm and height 40 cm, made of cement concrete of 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), excavation of soil for installation to a depth upto 40 cm, refilling etc. The concrete route marker to top finished with inscription of words complete as approved by Engineer in-charge.	40	Each	1,728.00	69,120.00
31	Earthing with GI earth pipe 4.5 m long and 40 mm dia, accessories and providing masonry enclosure with cover plate on the top having locking arrangement and watering pipe, complete with charcoal and salt etc., conforming to technical specifications and complete as required at site.	21	Job	8,000.00	1,68,000.00
32	Providing and laying earth connection from earth electrode with 6 SWG dia G.I. wire in 15 mm dia G.I. pipe medium class from earth electrode including connection with G.I. thimble excavation and re-filling as required etc. conforming to technical specifications and complete as required at site.	120	Mtr.	200.00	24,000.00
33	Providing and fixing 6 SWG dia GI wire on surface or in recess for loop earthing along with the existing HDPE/ GI Pipe as required for continuous earthing etc. conforming to technical specifications and complete as required at site.	14900	Mtr.	29.00	4,32,100.00
34	Conduction of in-field Photometry Test of Runway Turnpad Lights including submission of Test Report in soft as well as hard version as and when required. (Note: The Testing procedure along with reports must be in compliance with the standards mandated in FAA/ICAO/DGCA CAR)	1	Job	2,18,990.00	2,18,990.00

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Item No.	Item Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
35	Design, Fabrication, Supply, Installation, Testing and Commissioning of cubicle type, floor/wall mounting, dust and vermin proof, indoor LT panel, IP 42, suitable for 415V ± 10%, 3 phase, 4 wire, 50Hz AC supply system fabricated in compartmentalised modular design from CRCA steel of 2mm thick frame work and covers i/c cleaning and finishing complete with 7 tank process for powder coating in approved shade, bottom base channel of MS section of suitable dimensions, fabrication shall be done in transportable sections, entire panel shall have a copper earth bar of size 25mm x 5mm at the rear with 2 Nos. earth stud, Front Locking arrangement openable hinged type door in front, solid/flexible connections from main bus bar to switchgears and from switchgear output to cable termination in cable alley with required size of Al conductors/busbars including making connections with existing aluminium busbar of existing LT Panel at 90 degree angle and providing protection by enclosing the extended busbar in metallic compartment, control wiring with 2.5 sq.mm PVC insulated copper conductor cable (FRLSH), cable alleys, cable gland plates including providing following switchgears/accessories as per specifications: OUTGOING 100A FP MCCB 36 kA - 02 nos. 63A FP MCCB 36 kA - 10 nos. Note: All breakers breaking capacities shall be Icu=Ics. All thermal based release MCCBs shall be compartmentalised and provided with inbuilt O/L, S/C protection & E/F module with CBCT or Earth fault relay with required CT releases shall be provided. All MCCBs shall be provided with ON, OFF & TRIP indication lamp (LED type) with 2A SP MCB and 1 set Rotary operating mechanism and terminal expansion spreaders (Note: This panel will be an extension of the existing panel. The busbar of this panel will be connected to the busbar of adjacent existing panel in suitable enclosure- length upto 1.5m)	1	Job	3,42,470.00	3,42,470.00
36	Supply of 3.5C X 35 sq.mm size, 1.1KV grade, multicore XLPE insulated and PVC sheathed Aluminium conductor armoured power cable as per IS 7098(Part-I) with upto date amendments etc. complete as required.	500	Mtr.	254.00	1,27,000.00
37	Supply of 4C X 16 sq.mm size, 1.1KV grade, multicore XLPE insulated and PVC sheathed Aluminium conductor armoured power cable as per IS 7098(Part-I) with upto date amendments etc. complete as required.	1500	Mtr.	172.00	2,58,000.00

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Item No.	Item Description	Quantity	Unit	Rate (Rs)	Amount (Rs)
38	Laying of one number XLPE insulated and PVC sheathed power cable of 1.1 KV grade of 3.5C X 35 sq.mm size in the existing open masonry trench etc. complete as required.	200	Mtr.	25.00	5,000.00
39	Supplying and making end termination with brass compression gland and aluminium lugs for 3.5C X 35 sq.mm size of XLPE insulated and PVC sheathed aluminium conductor cable of 1.1 KV grade etc. complete as required.	7	Set	748.00	5,236.00
Total amount Rs.				2,59,31,621.00	

(In words: Rupees Two Crore Fifty Nine Lakh Thirty One Thousand Six Hundred and Twenty One only)

Vibha Saha
5.7.25

(Vibha Saha)
Dy. Gen. Mgr. (Engg.-Elect)
AAI, MBB Airport, Agartala

Signature Not Verified

Digitally signed by CHANDAN KUMAR
Date: 2026.01.30 12:54:18 IST
Location: eProcurement System for Central PSUs