



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

NO: AAC/EMD-II/1001(105)/208

Dated: 26.12.2022

To

M/S. Vardhman Airport Solutions Pvt. Ltd.,
1st & 2nd Floor, Plot no. 13/C & 13/3,
Rama Road Side, Industrial Area,
Najafgarh Road,
New Delhi-110 015.

e-mail : contact@vardhmanairports.com; praveen.dubey@vardhmanairports.com
Mob : 91-9818295444; +91-8888816084.

Name of Work: Provision of Taxiway Centre Line Lights (TCL) and IHP Lights at 'M' Taxiway and Modification of Taxiway Stand Lights at Cargo parking Stands (Bay No. 4 – 11) at NSCBI Airport, Kolkata.

Ref. Your e – bid No. 2022_AAI_107920_1, opened on dated 29.09.2022
(Financial Bid)

Dear Sir(s),

1. Your e-tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the item rates quoted by you totaling to **Rs.2,39,78,225/- (Rupees Two Crore Thirty Nine Lakhs Seventy Eight Thousand Two Hundred and Twenty Five only)** excluding GST which is **20.16%** (Twenty point One Six percent) below the Justified cost of Rs.3,00,33,403/- (excluding GST).
2. Dy. General Manager (Engg-Elect)-I, AAI, NSCBI Airport, Kolkata shall be the Engineer-in Charge of the work and his authorized representative shall be Shri. A. Dutta, Asstt. General Manager (Engg-Elect.). You are requested to attend the office of Dy. General Manager (Engg-Elect.)-I, AAI, NSCBI Airport, Kolkata-52 within 15 days from the date of issue of this letter 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) alongwith demi papers and the cost of the stamp paper shall be borne by you.
3. Please deposit an amount of **Rs. 23,97,823/- (Rupees Twenty Three Lakhs Ninety Seven Thousand Eight Hundred Twenty Three only)** towards Security Deposit within 10 days from the date of issue of this letter failing which the same will be deducted as per condition of Clause no.1A at GCC page no.16 of 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, Child Labour (Prohibition and Regulation) Act 1986, Construction Workers (Regulation of Employment and condition of Service) Act 1996, Building and other Construction Workers Welfare Cess Act 1996 as specified in clause 19 on GCC page no.49 of Tender, minimum wages act. and rules thereof Central and State Governments.
5. You are also directed to contact AGM(E-E) immediately who will arrange to hand over the site to you.

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6. Please note that the time allowed for carrying out the work shall be **06 (Six) Months** and same shall be reckoned from the 10th day after issue of this letter.
7. All queries, clarifications etc. raised during e-tendering process and replies there of including all corrigendum issued shall also form part of the agreement.
8. Any further correspondence in connection with the contract should normally be addressed to the Engineer-in-Charge.
9. 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,


(Swapan Sarkar) 26/12/2022

Dy. General Manager (Engg-Elect.)

Encl: Schedule of Quantity.

Copy to:

- 1) The Regional Labour Commissioner(Central), 2nd, MS Building, 5th floor, Nizam Palace, 234/4, A.J.C.BoseRoad, Kol- 700 020.
- 2) The Chief Commissioner of Income Tax, Aayakar Bhawan, 7, Chowringhee Square, Esplanade, Chowringhee North, Bow Barracks, Kolkata, West Bengal 700069.
- 3) The Regional Provident Fund Commissioner, D K Block, Sector-2, Salt Lake City, Kolkata- 91.

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Item Rate BoQ

Tender Inviting Authority: AIRPORTS AUTHORITY OF INDIA

Name of Work: Provision of Taxiway Centre Line Lights (TCL) and IHP Lights at 'M' Taxiway and Modification of Taxiway Stand Lights at Cargo parking stands (Bay No. 4 – 11) at NSCB Airport, Kolkata

Contract No: AAC/AGM(EE)-II/2021-22/NIT-10

Name of the Bidder/ Bidding Firm / Company :	Vardhman Airport Solutions Pvt Ltd.							
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)								
NUMBER #	TEXT #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Item Code / Make	Quantity	Units	Quoted Currency in INR / Other Currency	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	2	3	4	5	12	13	53	55
1	Designing of Airfield Lighting System for the 'M' taxiway and parking bays no. 4, 11 as per ICAO - Annexure 14, along with detailed quantity calculations in the subsequent schedule of quantities. The Design should include marking the AGL components, route of Primary and Secondary cable layout and integration of the new design layout with the existing Airfield Lighting Layout. It also includes GPS based co-ordinates by using total station and identifying the locations of light fixtures before light installation as per approved drawing and submission of reports / drawings in AUTOCAD etc.	Item 1	1.000	Job	INR	108640.00	108640.00	INR One Lakh Eight Thousand Six Hundred & Forty Only
2	Supply of Indoor type air cooled microprocessor controlled Constant Current Regulator (CCR) of suitable for operation on 230/415V AC $\pm$ 10%, 50 Hz input AC supply with 5 steps variation of current output (2.8, 3.4, 4.0, 5.2 and 6.6 Amp) and able to communicate with PC or PLC controlled system with digital output ammeter (0-10 Amps), over current, over voltage, open circuit and earth fault protection and earth leakage meter, two stage earth leakage detector, positive back indication equipments, hours run counter, LCD display and Regulators shall be L-829 certified etc. complete as required for the following rating and confirming to specifications including all hardware and software and suitable to be operated via existing ALCMS System as per the enclosed particular specifications. (Make : FAA Certified makes) (a) 30 KW CCR	Item 2	4.000	Each	INR	1426000.00	5704000.00	INR Fifty Seven Lakh Four Thousand Only

3	Supply of Inset type Taxiway Centre Line light fitting suitable for straight section/straight section (off set)/curved section for aviation visual aids requirements complete with 8" shallow base with bottom or side hole entry and matching body of the fitting, inner body and outer cover made of die cast aluminum alloy complete with 45 W nominal capacity, pre-focused reflector halogen lamp of 6.6 Amps current with connected heat resistant accessories, prism assembly, optical assembly, "O" ring seal, pressure relief test plug, two-pole secondary plug, hardware, lenses and all standard accessories and ready for site installation complete as required and as per the enclosed particular specifications and suitable for operation on existing Honeywell make ALCMS (Airfield Lighting Control and Monitoring System). (Fitting Make: FAA Certified makes) (a) Bi-directional Taxiway Centre Line light fitting (Curved) (Green/Green).	Item 3	14.000	Each	INR	28229.00	395206.00	INR Three Lakh Ninety Five Thousand Two Hundred & Six Only
4	Supply of Inset type Taxiway Centre Line light fitting suitable for straight section/straight section (off set)/curved section for aviation visual aids requirements complete with 8" shallow base with bottom or side hole entry and matching body of the fitting, inner body and outer cover made of die cast aluminum alloy complete with 45 W nominal capacity, pre-focused reflector halogen lamp of 6.6 Amps current with connected heat resistant accessories, prism assembly, optical assembly, "O" ring seal, pressure relief test plug, two-pole secondary plug, hardware, lenses and all standard accessories and ready for site installation complete as required and as per the enclosed particular specifications and suitable for operation on existing Honeywell make ALCMS (Airfield Lighting Control and Monitoring System). (Fitting Make: FAA Certified makes) (a) Bi-directional Taxiway Centre Line light fitting (Straight) (Green/Green).	Item 4	19.000	Each	INR	28229.00	536351.00	INR Five Lakh Thirty Six Thousand Three Hundred & Fifty One Only
5	Supply of Inset type Uni-directional Taxiway Intermediate Holding Position light fitting for aviation visual aids requirements complete with Yellow interference filter and 8" shallow base with bottom / side hole entry and matching body of the fitting, inner body and outer cover made of die cast aluminum alloy complete with 45 W nominal capacity, pre-focused reflector halogen lamp of 6.6 Amps current with connected heat resistant accessories, prism assembly, optical assembly, "O" ring seal, pressure relief test plug, two-pole secondary plug, hardware lenses and all standard accessories and ready for site installation complete as required and as per the enclosed particular specifications and suitable for operation on existing Honeywell make ALCMS (Airfield Lighting Control and Monitoring System). (Make : FAA Certified makes).	Item 5	3.000	Each	INR	26780.00	80340.00	INR Eighty Thousand Three Hundred & Forty Only
6	Supply of Inset type Omni directional Aircraft Stand Maneuvering Guidance light fitting for aviation visual aids requirements complete with Yellow interference filter with 8" shallow base with bottom or side hole entry and matching body of the fitting, inner body and outer cover made of die cast aluminum alloy complete with 45 W nominal capacity, pre-focused reflector halogen lamp of 6.6 Amps current with connected heat resistant accessories, prism assembly, optical assembly, "O" ring seal, pressure relief test plug, two-pole secondary plug, hardware lenses and all standard accessories and ready for site installation complete as required and as per the enclosed particular specifications and suitable for operation control and monitoring on existing Honeywell make ALCMS (Airfield Lighting Control and Monitoring System). (Make : FAA Certified makes).	Item 6	33.000	Each	INR	26949.00	889317.00	INR Eight Lakh Eighty Nine Thousand Three Hundred & Seventeen Only

7	Supply of Inset type Uni directional Aircraft Stand Maneuvering Guidance light fitting for aviation visual aids requirements complete with Red interference filter with 8" shallow base with bottom or side hole entry and matching body of the fitting, inner body and outer cover made of die cast aluminum alloy complete with 45 W nominal capacity, pre-focused reflector halogen lamp of 6.6 Amps current with connected heat resistant accessories, prism assembly, optical assembly, "O" ring seal, pressure relief test plug, two-pole secondary plug, hardware and all standard accessories and ready for site installation complete as required and as per the enclosed particular specifications and suitable for operation control and monitoring on existing Honeywell make ALCMS (Airfield Lighting Control and Monitoring System). (Make : FAA Certified makes).	Item 7	2.000	Each	INR	27220.00	54440.00	INR Fifty Four Thousand Four Hundred & Forty Only
8	Supply of FAA Certified following rating 5000V, 50 Hz series Isolating Transformers encapsulated in polyester resin, finally moulded in neoprene type rubber with primary and secondary connection leads, compatible to use on ALCMS and confirming to technical specification etc. as required for following application. (Make : FAA Certified makes) a) 100 Watt, 6.6A/6.6A for ILCM operation.	Item 8	71.000	Each	INR	9616.00	682736.00	INR Six Lakh Eighty Two Thousand Seven Hundred & Thirty Six Only
9	Supply of Airfield Lighting (AFL) 5 KV grade, Single Core, Copper Conductor, Copper shielded, XLPE insulated, and with inner and outer semi conductor, Polyethylene (PE) outer sheathed, Copper Braid, Unarmoured Underground Cable for airfield lighting Primary Circuit, confirming to specification as specified in technical specification and having shield resistance less than 5 Ohm per Km of the following size as required and suitable for communication on ALCMS system. (Make: FAA Certified makes) a) 6 Sq. mm.	Item 9	24100.000	Metre	INR	246.00	5928600.00	INR Fifty Nine Lakh Twenty Eight Thousand Six Hundred Only
10	Supply of FAA Certified 600V grade flexible copper conductor, EPR insulated & CPE (Chlorinated Polyethylene, cross - linked, heavy duty) outer sheath (Black colour) Secondary cable for Airport lighting circuits conforming as specified in particular specification of following sizes as required. (Make : FAA Certified Makes). a) 2C x 4 sq.mm.	Item 10	6942.000	Metre	INR	183.00	1270386.00	INR Twelve Lakh Seventy Thousand Three Hundred & Eighty Six Only
11	Supply of Fire retardant Yellow/Green 4 sq. mm. Single Core PVC Insulated Industrial Grade Copper Conductor (Unsheathed) Flexible Cables, 1100 Volts Conforming to IS: 694-2010.	Item 11	6942.000	Metre	INR	42.00	291564.00	INR Two Lakh Ninety One Thousand Five Hundred & Sixty Four Only
12	Supply of following sizes 5 KV grade dry type plug and receptacle of type I, class 'B' primary connector kit with field attachment and suitable for 5 KV grade single core copper conductor, copper braided, XLPE insulated PE outer sheathed shielded cable, complete as required and confirming to the technical specification. (Make: FAA Certified Makes) a) 6 sq. mm.	Item 12	195.000	Set	INR	1941.00	378495.00	INR Three Lakh Seventy Eight Thousand Four Hundred & Ninety Five Only
13	Supply of FAA Certified Secondary connector kit suitable for connection 2C X 4.0 sq mm multi stranded annealed conductor, unshielded secondary airfield lighting cables etc. complete as required and confirming to the technical specification. (Make: FAA certified connector only).	Item 13	168.000	Set	INR	1905.00	320040.00	INR Three Lakh Twenty Thousand & Forty Only
14	Supply of following size Fire Retardant Anti Rodent permanently lubricated HDPE (High density polyethylene) pipe along with necessary accessories like connectors / couplers / bend / tee etc. and with pulling rope fitted inside complete as required and as per technical specifications. OD 63 mm/ ID 50 mm.	Item 14	4400.000	Metre	INR	143.00	629200.00	INR Six Lakh Twenty Nine Thousand Two Hundred Only

15	Supply of Fire Retardant Anti Rodent DWC HDPE pipe of following size along with necessary accessories like connector/coupler /bend/tee etc. and with pulling rope fitted inside complete as required and as per the technical specifications. OD 50 mm/ ID 37 mm.	Item 15	2486.000	Metre	INR	61.00	151646.00	INR One Lakh Fifty One Thousand Six Hundred & Forty Six Only
16	Laying of following size permanently lubricated HDPE (high density polyethylene) pipe along with its necessary accessories like coupler, end plugs etc. below the ground (i/c Road crossing, Cement concrete Apron Area) at a depth of 3 m to 5 m through horizontal directional drilling etc. complete as required after doing Ground Penetrating radar survey and submitting its report of the Underground Utilities as per the Technical Specifications. OD 63 mm/ ID 50 mm.	Item 16	1000.000	Metre	INR	280.00	280000.00	INR Two Lakh Eighty Thousand Only
17	Laying of 63 mm dia OD HDPE pipe, complete with accessories like couplers, bends, tee etc. in the soil for GLF work upto 750 mm deep with excavation, back filling & making good the same as per site requirement.	Item 17	200.000	Metre	INR	90.00	18000.00	INR Eighteen Thousand Only
18	Laying of high density polyethylene (HDPE) pipe of OD 63 mm complete with accessories like couplers, bends, tee etc. in the shoulder/runway/taxiway/apron for GLF work i/c machine cutting of runway/taxiway/shoulder surface of width 110 mm and upto 200 mm deep and taking the excavated material out of the area within a lead of 2 kms and refilling & making good the same by concreting as per the site requirement.	Item 18	3300.000	Metre	INR	196.00	646800.00	INR Six Lakh Forty Six Thousand Eight Hundred Only
19	Laying of following size DWC HDPE Pipe on the surface of cable trench / wall with GI saddle at suitable interval as per site requirement and direction of Engineer In-Charge. OD 50 mm/ ID 37 mm.	Item 19	2486.000	Metre	INR	45.00	111870.00	INR One Lakh Eleven Thousand Eight Hundred & Seventy Only
20	Fabrication, supply & installation of MS transformer housing box of size 750mm x 350 mm x 450 mm (H) made out 6 mm thick MS sheet and top cover 10 mm thick MS sheet with 12 nos. hole on the edges and 12 nos. bolts, washer, rubber gasket etc., finishing including pencil grinding (beveling) of outer edge of top cover to get a 'C' shaped finished surface, the box shall have hole in the centre at 150 mm above bottom surface at two / three / four sides suitable to receive 50 mm dia GI pipe or 63 mm dia HDPE pipe, having two earth bolts of M10x40 mm. and and a drain pipe at the bottom suitably tapped to receive 15mm dia GI pipe, all inserts should be suitable for M-10 size bolt & shall be of SS including painting of box with one coat of primer & two coats of black enamel paint and installation using cement concrete 1:2:4, 100 mm all around the box and pedestal of 0.30m & 0.10m thick all around the box making suitable slope to level of runway/taxiway all around the housing box and lettering, numbering etc. complete as required. a) Installation of housing box in bitumen pavement / concrete area of Runway/Taxiway/Apron.	Item 20	168.000	Job	INR	13440.00	2257920.00	INR Twenty Two Lakh Fifty Seven Thousand Nine Hundred & Twenty Only
21	Laying of one number PVC insulated & PVC sheathed armoured / unarmoured aluminium / copper conductor AFL / power cable of voltage grade exceeding 1.1 KV but not exceeding 11 KV of size not exceeding 25 sq. mm. in the cable duct / masonry trench / RCC / HUME / METAL / GI / HDPE pipes etc. as required.	Item 21	24100.000	Metre	INR	17.00	409700.00	INR Four Lakh Nine Thousand Seven Hundred Only
22	Providing and fixing 6 SWG dia G.I. wire on surface or in recess or along with cable for loop earthing etc. as required.	Item 22	12000.000	Metre	INR	19.00	228000.00	INR Two Lakh Twenty Eight Thousand Only
23	Making connection of 5 KV grade, 6 Sq mm Copper conductor, Copper shielded, XLPE insulated, and with inner and outer semi conductor, Polyethylene (PE) outer sheathed, Copper Braid cable with dry type plug & receptacle of type I, class 'B' i/c crimping & fixing, applying HT tape etc. as well as checking continuity with the existing circuits etc. complete as required as per direction of EIC.	Item 23	195.000	Job	INR	168.00	32760.00	INR Thirty Two Thousand Seven Hundred & Sixty Only

24	Kerf cutting with machine in taxiway/runway/apron of PQC/bituminous surface of depth upto 50 mm and width upto 15 mm for 1 or 2 nos secondary lead along with earth cables and laying of secondary lead and earth cable by wrapping cotton tape i/c refilling the same by suitable sealing material (PIDILITE) etc. complete as required and as per instruction of EIC.	Item 24	4000.000	Metre	INR	218.00	872000.00	INR Eight Lakh Seventy Two Thousand Only
25	Kerf cutting with machine in taxiway/runway/apron of PQC/bituminous surface of depth upto 80 mm and width upto 15 mm for 3 or 4 nos secondary lead along with earth cables and laying of secondary lead and earth cable by wrapping cotton tape i/c refilling the same by suitable sealing material (PIDILITE) etc. complete as required and as per instruction of EIC.	Item 25	1000.000	Metre	INR	235.00	235000.00	INR Two Lakh Thirty Five Thousand Only
26	Laying of one number 2 x 4 sq mm AFL secondary cable along with 1 x 4 sq mm earth cable of voltage grade not exceeding 1.1 KV in the cable duct / masonry trench / RCC / HUME / METAL / GI / HDPE pipes etc. as required.	Item 26	330.000	Metre	INR	17.00	5610.00	INR Five Thousand Six Hundred & Ten Only
27	Making end termination of 2 x 4 sq mm multi stranded annealed conductor, unshielded secondary airfield lighting cables with secondary connector kit connecting one end at inset fitting side and other end towards isolating transformer end etc as required.	Item 27	168.000	Job	INR	179.00	30072.00	INR Thirty Thousand & Seventy Two Only
28	Installation, Testing and Commissioning of inset type fitting of 8 inch dia with core cutting, aligning and setting after identifying point i/c providing sealing material and installation of Isolating Transformer, connection etc. for commissioning of the light fitting i/c supply of all materials etc. complete as required except supply of fixture, plug & receptacles, isolating transformer.	Item 28	207.000	Job	INR	5040.00	1043280.00	INR Ten Lakh Forty Three Thousand Two Hundred & Eighty Only
29	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured copper conductor conforming to IS 7098 (Part I) amended upto date. 3C X 35 Sq. mm.	Item 29	100.000	Metre	INR	1250.00	125000.00	INR One Lakh Twenty Five Thousand Only
30	Installation, Testing, Commissioning of CCR including laying & termination of incoming 3 Core x 35 sq mm. Copper conductor Armoured Cable, and connection of outgoing Field side 5 KV grade cables and termination into CCR control cable, LAN cable, connection, making foundation legs of CCR, earth connections with GI strip 2 nos. with Earth Bus etc. complete as required. 30 KW CCR	Item 30	4.000	Job	INR	5600.00	22400.00	INR Twenty Two Thousand Four Hundred Only
31	Supplying and making end termination with brass compression gland and copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper conductor cable of 1.1 KV grade as required. 3C X 35 Sq. mm.	Item 31	8.000	Each	INR	952.00	7616.00	INR Seven Thousand Six Hundred & Sixteen Only
32	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	Item 32	66.000	Metre	INR	252.00	16632.00	INR Sixteen Thousand Six Hundred & Thirty Two Only
33	Construction of brick masonry chamber with bricks in cement mortar 1:4 (1 cement : 4 coarse sand) and R.C.C. top slab surrounded by 'C' type iron frame (5 mm thick) with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and hooking arrangement for easy lifting the top slab and the foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished smooth with a floating coat of neat cement on walls and bed concrete etc. with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 complete as per standard design: (inside dimensions 1000x750 mm and 900 mm deep) i/c submission of GPS coordinate at each chamber location etc. and as per direction of EIC.	Item 33	4.000	Job	INR	16800.00	67200.00	INR Sixty Seven Thousand Two Hundred Only

34	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including form work etc. as required as per the site condition.	Item 34	5.000	Cum	INR	7280.00	36400.00	INR Thirty Six Thousand Four Hundred Only
35	Earthing with 'B' class G. I. earth pipe 4.5 mtrs. long x 40 mm dia i/c accessories and providing masonry enclosures with cover plate having locking arrangement & watering pipe etc. i/c charcoal/ coke and salt complete as required.	Item 35	4.000	Job	INR	6776.00	27104.00	INR Twenty Seven Thousand One Hundred & Four Only
36	Dismantling of 8" dia. Inset type taxiway stand light fixture along with shallow base from bituminous/concrete pavement, fill the area with bitumen/cement concrete/early setting cement, cleaning the shallow base i/c disconnecting isolating transformer, removal of secondary lead cable and transportation to AAJ store etc. as required.	Item 36	70.000	Job	INR	1120.00	78400.00	INR Seventy Eight Thousand Four Hundred Only
37	Dismantling of cable laid in existing pipe/ Duct of size up to 25 Sq mm. upto 5 KV grade and returning to AAJ store.	Item 37	500.000	Metre	INR	11.00	5500.00	INR Five Thousand Five Hundred Only
Total in Figures							23978225.00	INR Two Crore Thirty Nine Lakh Seventy Eight Thousand Two Hundred & Twenty Five Only
Quoted Rate in Words		INR Two Crore Thirty Nine Lakh Seventy Eight Thousand Two Hundred & Twenty Five Only						

Swahl
Dgm (A-E)
26/12/2022