



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA
कलबुर्गी हवाई अड्डा, Kalaburagi Airport

सं.:/Ref. No. AAI/VOGB/ENGG-E/CW-03/2024-25/86

दिनांक /Date:20.02.2025

To,

By Speed post/Email

M/s. Mankha Electrotech Pvt. Ltd.
Shop No. 54, GF, DDA Commercial Shop, Block 6,
Mangolpuri Industrial Area, Ph-I, Delhi-110083
E-mail: sales@mankha.in, info@mankha.in
GST No: 07AANCM8152B1ZG

कार्य का नाम/ Name of Work : Modification of Perimeter Lighting at Kalaburagi Airport
SH: Electrical Works

स सं./Ref. 1. Tender Id No. **2024_AAI_221150_1** dated **27.12.2024**.

2. Your Financial bid opened on **27.01.2025**.

महोदय / Dear sir(s),

1. Your E-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 1,05,41,029.60.00/-** (Rupees One Crore Five Lakhs Forty One Thousand Twenty Nine Rupees and Sixty Paisa only) excluding GST which is **36.21% below** the justified cost of **Rs. 1,65,25,312.00/-** excluding GST.
2. The Senior Manager (Engg-E), AAI, Kalaburagi Airport, Kalaburagi shall be the Engineer-in-Charge of the work. You are requested to attend the office of the Senior Manager (Engg-E), AAI, Kalaburagi Airport, Kalaburagi-585102 within 15 days to sign and complete contract 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 papers shall be borne by you.
3. Please deposit **Rs.10,54,103.00/-** (Rupees Ten Lakhs Fifty-Four Thousand One Hundred and Three Only) towards security deposit within 15 days from the date of issue of this letter, failing which, the same will be deducted from yours running bills as per condition of contract document.
4. You are requested to comply with the provisions of Contract Labour (Regulation and Abolition) Act of 1970 and Contract Labour (Regulation and Abolition) Central rules 1971 and minimum wages act and rules there of Central and State Governments.

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5. You are also directed to contact Manager (Engg-Elect), AAI, Kalaburagi Airport, Kalaburagi – 585 102 immediately who will arrange to hand over the site to you.
6. Any further correspondence in connection with the contract should normally be addressed to the Senior Manager (Engg-Elect), AAI, Kalaburagi Airport.
7. Please note that the time allowed for carrying out the work shall be Five (05) Months and same shall be reckoned from **01.03.2025**.
8. You are requested to submit the valid GST invoice as per GST act mentioning the GSTIN, indicating the GST rates applicable and input tax credit details if any processing the bills mentioning the AAI Kalaburagi GST No.29AAACA6412D2Z3.
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.

अनुलग्नक/Encl :Schedule of Quantities

भवदीय/Yours Faithfully,

वरिष्ठ प्रबंधक (अभि-वि)/ Senior Manager (Engg-E),

अध्यक्ष के लिए एवं की ओर से/For & On Behalf of The Chairman,
भारतीय विमानपत्तन प्राधिकरण/Airports Authority of India,
भा वि प्रा, कालाबुरगी हवाई अड्डा/AAI, Kalaburagi Airport,

Kalaburagi-585102
वरिष्ठ प्रबंधक (विद्युत)/Sr. Manager (Engg. Electrical)
भा. वि. प्रा / Airports Authority of India
कलबुर्गी हवाई अड्डा / Kalaburagi Airport

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Item Rate BioQ

Tender Inviting Authority: Senior Manager (Engg-Electrical), AAI, Kalaburagi Airport.

Name of Work: Modification of Perimeter Lighting at Kalaburagi Airport SH: Electrical Works

Contract No: 2024_AAL221150_1

Name of the Bidder/ Bidding Firm /

Mankha Electrotech Private Limited

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 #	Item Description	TEXT #	Item Code / Make	Quantity	Units	NUMBER	Estimated Rate	NUMBER #	BASIC RATE EX GST In Figures To be entered by the Bidder Rs. p	TOTAL AMOUNT Without GST	NUMBER #	TEXT #
1	2	Supply of 70 W (Maximum) & 8400 (Minimum) energy efficient LED Floodlight luminaire with IP-65 protected single piece pressure die cast aluminium alloy housing with heat resistant glass including all accessories like LED electronic driver with power factor correction facility suitable to operate on 230 V, 50 Hz, single phase AC supply complete etc as per enclosed technical specification.		Item no 1	370	Each	6	2580.00	53	954600.00	55	INR Nine Lakh Fifty Four Thousand Six Hundred & Paise Zero Only	
2		Supply of 30 Watt (Maximum) & 3600 (Minimum) & energy efficient LED street light /Roadway light fixture IP-65 protected single piece pressure die cast aluminium alloy housing with heat resistant glass including all accessories like LED electronic driver with power factor correction facility suitable to operate on 230 V, 50 Hz, single phase AC supply complete etc as per enclosed technical specification.		Item no 2	30	Each		2040.00	61200.00	INR Sixty One Thousand Two Hundred & Paise Zero Only			
3		Supply of following size, ISI marked Double Walled Corrugated high density polyethylene pipe (DWC-HDPE) having corrugation on the outer wall conforming to IS 14930 Part-II complete with necessary fittings for jointing for protection of under ground cable complete etc as required.											
3.01		a) 50 mm Dia (outer dia)		Item no 3	17600	Mtr		55.60	978560.00	INR Nine Lakh Ninety Seven Thousand Five Hundred & Paise			
3.02		b) 120 mm Dia (outer dia)		Item no 4	6500	Mtr		123.00	799500.00	INR Seven Lakh Ninety Nine Thousand Five Hundred & Paise			
4		Laying of one number of following size of Double Walled Corrugated high density polyethylene pipe (DWC-HDPE) for protection of 5.0KV grade under ground cable directly in ground at a depth of 80 cm and width of 35 cm including excavation and refilling the trench and jointing of pipes etc as required.											
4.01		a) 50 mm Dia (outer dia)		Item no 5	10926	Mtr		70.00	764820.00	INR Seven Lakh Sixty Four Thousand Eight Hundred & Paise			
4.02		b) 120 mm Dia (outer dia)		Item no 6	6500	Mtr		70.00	455000.00	INR Four Lakh Fifty Five Thousand & Paise			
5		Laying of one number additional of 50 mm Dia (outer dia) of Double Walled Corrugated high density polyethylene pipe (DWC-HDPE) for protection of 5.0KV grade under ground cable directly in ground in the existing trench in one tier horizontal formation with standard suitable spacers at a depth of 80 cm.		Item no 7	4800	Mtr		24.00	115200.00	INR One Lakh Fifteen Thousand Two Hundred & Paise Zero Only			
6		Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUMED/ METAL pipe as required.											
6.01		a) Up to 35 sq. mm		Item no 8	18000	Mtr		24.00	432000.00	INR Four Lakh Thirty Two Thousand & Paise			
6.02		b) Above 185 sq. mm and upto 400 sq. mm		Item no 9	7000	Mtr		30.00	210000.00	INR Two Lakh Ten Thousand & Paise			
7		External Lighting Feeder pillars Design, Manufacturing, Supply, Installation, Testing & Commissioning of feeder pillar/ panel board, cubicle type, made out of 2mm thick CRCA sheet, totally enclosed, double door IP 65, free standing, floor mounting, dust and vermin proof, outdoor, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system. The gasket material shall be Polyurethane while the gasket shall be internally embedded. Panel shall be openable with locking arrangement bottom 3mm thick detachable gland plate. Panel shall be IP-65 or higher rated and enclosure shall be type tested as per IEC -60439 etc. The feeder pillars shall be complete with 3 phase and neutral bus bars of capacities as described below and moulded case circuit breakers (MCCBs) with adjustable overload relay, copper PRLS control wiring with 1.5 sq.mm, duly painted complete with earth bus, aluminium bus bar, numbering & sign writing, interconnection etc. & CPRI test reports for short circuit for 50KA, dielectric strength mechanical protection and temperature rise.											

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Estimated Rate	BASIC RATE EX GST In Figures To be entered by the Bidder Rs. p	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
1	2	3	4	5	6	13	53	55
8	(A) INCOMER (i) MCCB,FP, Microprocessor based, 100 A, 35 KA Breaking Capacity (Ics=100%cu) at 415V AC with extended rotary handle and extension terminal to receive incoming cable - 1 set (ii) MFM with CT's and selector switch for incomer-1 set (Digital Type) (iii) LED indicating lamps-RYB and ON & OFF for /C- 1 set (iv) 100A 4P Power Contactor AC-1 duty along with 24-hours continuous rated time switch for automatic operation, auto-manual selection for manual operation push button etc as required-1 set v) Mov based class-2/type-2 SPD with in built fuse for each incomer at incomer Section of In 10kA & Irms 20kA 5/20mS as per IS/IEC 62305-3 LPL-1/- 01 Nos. (B) Bus bars Suitable for 150 A, 4 Pole Aluminium Busbar.							
9	(B) OUTGOINGS (i) MCCB,FP,40 A, 25 KA Breaking Capacity (Ics=100%cu) at 415V AC with extended rotary handle and extension terminal to receive incoming/outgoing cables- 6 set. (ii) LED indicating lamp for On / OFF Indication -For outgoing feeder- 6 Set (iii) Suitable heavy duty 4 pole strip connector & interconnection With suitable size copper flexible cable/ Copper strip							
10	External Lighting Feeder pillar as above sl.no 7 to 9	Item no 10	5	job		150000.00	750000.00	INR Seven Lakh Fifty Thousand & Paise Zero Only
11	LT Panel: Design, Manufacturing, Supply, Installation, Testing & Commissioning of LT Panel, cubicle type, made out of 2mm thick GRCA sheet, totally enclosed, IP 42, Free standing, floor mounting, dust and vermin proof, indoor, compartmentalised, suitable for operation on 3 phase and neutral, 415 V, 50Hz AC system with busbars extensible on both sides, making interlocking arrangement between incomers, top/ bottom 3mm thick detachable gland plate as per site requirement, type tested assembly as per IEC-61439 1&2, wiring with space heater, thermostat and control MCB's shall be provided for all vertical sections of main LT panel, internal wiring with suitable size wires/cable, interconnection, duly powder coated painting etc. including supply & installation of following switchgears, metering instruments and accessories in the LT Panel and as per specifications.							
12	Incomers: i) 630 Amp, 4 Pole MCCB, 50ka - 02 nos ii) LED indication lamps for RYE, breaker 'ON/ OFF/ TRIP', spring charged, DC control supply healthy etc. with 2Amp control MCBs iii) Digital Multifunction Meter, accuracy class 0.5s, with LED/LCD screen of Max Demand Load, 1 V; Hz; Active, Reactive, Apparent Power & Energy; Power factor; % unbalance of current & voltage, %THD, individual harmonics up to 15th level (complying with IEC61557-12) with RS-485 / Ethernet port with 3 Nos. cast resin current transformers of dual core CT's of suitable Amp. ratio, 15 VA metering, protection MCBs as required accessories to complete the system. iv) Microprocessor release/s based relay/s (EMI & EMC certified) for over current, earth fault, short circuit protection, Under voltage relay with definite time, along with dual core CT of current transformers of 1250/5A ratio, 15 VA class-5P10 protection - 1 set. v) Terminals to receive 630 A Al Bus duct suitable & complete required as per site vi) Panels shall be housed with Mov based class-2/type-2 SPD with in built fuse for each incomer at each Bus Section of In 10kA & Irms 20kA 5/20mS as per IS/IEC 62305-3 LPL-1.							
13	Bus Bar : 1 Sections of Electrolytic high conductivity Aluminium extensible three phase and neutral busbars rated at 800 amps, & auxiliary Bus Bars of suitable capacity insulated with heat shrinkable coloured PVC sleeves & suitable to with stand symmetrical fault level of 50 KA at 433 volts, /c DMC/SMC bus bars supports at required intervals complete for cross section, size supports & their spacing etc. Bus couplers 630 Amp 4 pole MCCB, 50ka - 1 No. Interlocking: Mechanical Interlocking through in MCCB (Incomers & Bus couplers) should be provided to ensure that only one supply is available at a time and to eliminate any possibility of accidentally approaching two supplies at one bus section as per single line diagram enclosed.							
14	Outgoings: i) 125A TPN MCCB 35ka microprocessor based - 12 Nos (ii) MFM with CT's (Digital Type) - 12 Nos (iii) LED indicating lamps-RYB and ON & OFF for MCCB- 12 set							

Subhash
30/01/21

Sl. No.	Item Description	Item Code / Make	Quantity	Units	Estimated Rate	BASIC RATE EX GST In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without GST	TOTAL AMOUNT In Words
1		3	4	5	6	13	53	55
15	L.T panel as mentioned as above sl.no 11 to 14	Item no 11	1	Job		240000.00	240000.00	INR Two Lakh Forty Thousand & Paise Zero Only
16	Excavation of the cable trenches in hard rock not exceeding 1.5 metres in width, and lift upto 1.5 metres, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 50 metres.	Item no 12	300	Cum		3300.00	990000.00	INR Nine Lakh Ninety Thousand & Paise Zero Only
17	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in foundation work of E&M installations/ Road finishing works etc as required.	Item no 13	50	Cum		6500.00	325000.00	INR Three Lakh Twenty Five Thousand & Paise Zero Only
18	Shifting of existing 4 mtr steel light pole and erection at new location including excavation, providing foundation with cement concrete (1 cement : 2 coarse sand : 4 stone aggregate 20mm) of size 1200mmX410mmX410mm, plastering foundation the above ground level (200 mm), 16mm threaded rod of 4 nos, length 500 mm with 2 no 21 mm nuts for each, 2 nos 50mm DMC pipe for cable entry, relling, compaction ,curing ,required frame work for concrete casting ,etc complete as required. as per the drawing (DWG-1).	Item no 14	308	Job		5200.00	1601600.00	INR Sixteen Lakh One Thousand Six Hundred & Paise Zero Only
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.	Item no 15	11	Each		3300.00	36300.00	INR Thirty Six Thousand Three Hundred & Paise Zero Only
20	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.							
21	3 1/2 x 300 sq. mm.	Item no 16	8	Set		600.00	4800.00	INR Four Thousand
22	3 1/2 x 240 sq. mm.	Item no 17	10	set		450.00	4500.00	INR Four Thousand
23	3 1/2 x 25 sq. mm.	Item no 18	8	set		330.00	2640.00	INR Two Thousand
24	4 x 16 sq. mm.	Item no 19	10	set		222.00	2220.00	INR Two Thousand
25	Installation, testing and commissioning of Floodlight/Steeltight fixture with all accessories directly on existing GI Pipe bracket/angle including connection with existing 3x1.5 sq. mm FR PVC insulated, copper conductor to light fixture from the connector terminals and earthing etc. complete as required.	Item no 20	338	Each		150.00	50700.00	INR Fifty Thousand Seven Hundred & Paise Zero Only
26	Providing & fixing 63 A, 4 pole terminal block connectors for loop in & loop out for cable terminations of armoured aluminium cable upto 25sqmm, including providing necessary lugs suitable for 4core 16 sqmm loop in and out cables, along with providing & fixing of 1 Nos. 6 Amp. 10 KA, C-series, DIN rail for mounting the SPMCBs, Interconnection etc. complete as required.	Item no 21	308	Each		1140.00	351120.00	INR Three Lakh Fifty One Thousand One Hundred Twenty & Paise Zero Only
27	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate and watering pipe etc. with charcoal/ coke and salt as required.	Item no 22	27	Set		8700.00	234900.00	INR Two Lakh Thirty Four Thousand Nine Hundred & Paise Zero Only
28	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	Item no 23	10224	Mtr		20.40	208569.60	INR Two Lak: Eight Thousand Five Hundred Sixty Nine & Paise Sixty Only
29	Supply of 5 core 4 Sqmm flexible EPR insulated PCP Sheathed copper conductor cable suitable for 30Mtr High Mast Light Operation.	Item no 24	300	Mtr		510.00	153000.00	INR One Lakh Fifty Three Thousand & Paise Zero Only
30	Supply of 6mm SS Wire Rope suitable for 30Mtr High Mast Light Operation.	Item no 25	300	Mtr		96.00	28800.00	INR Twenty Eight Thousand Eight Hundred & Paise Zero Only
31	Replacement of SS Rope and Power cable as per OEM standards of 30Mtr Height Mast including providing necessary clamps, connectors, hiring suitable crane, ensure the safety standards and providing cable connectors, etc., as per EIC instructions.	Item no 26	6	Set		6000.00	36000.00	INR Thirty Six Thousand & Paise Zero Only
32	Providing and laying of 110mm outer dia HDPE pipe by Horizontal Directional Drilling including jointing/welding of HDPE pipes across the runway/caseway and Roads by trenchless directional drilling (HDD) method by deploying HDD machines, mud mixing system, Earth movers etc. complete as required.	Item no 27	500	Mtr		1500.00	750000.00	INR Seven Lakh Fifty Thousand & Paise Zero Only
Total in Figures							10541029.60	INR One Crore Five Lakh Forty One Thousand Twenty Nine & Paise Sixty Only
Quoted Rate in Words								

Signature Not Verified

Digitally signed by SREEDHAR BABU MUSHAM
Date: 2025.02.20 11:25:08 IST
Location: eProcurement System for Central PSUs

वरिष्ठ प्रबंधक (विद्युत) / Sr. Manager (Electrical)
भा. वि. प्रा / Airports Authority of India
कलबुर्गी हवाई अड्डा / Kalaburagi Airport

20/02/25