



भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA

NO: AAC/EMD-II/1001(105)/138

Dated:04.05.2023

To

Balaji Engineering,
Flat No. 18, 3rd floor, Queens Castle,
7th Street, Lakshmi Nagar, Nanganallur,
Chennai – 600 061.

E-mail : balajiengineering.rajesh@gmail.com / balajiengineering71@gmail.com

Mob. No. +91 9444721735 / 9020703390

Name of Work: Re-construction of G-Taxiway and allied work at NSCBI Airport Kolkata. (SH: Electrical Works).

Ref : Your e-bid No 2023_AAI_140689_1 ,opened on dated 10.03.2023

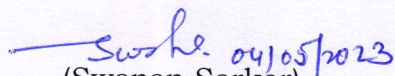
(Financial Bid) and Minutes of the Negotiation Meeting Ref No.-AAC/EMD-II/GTWY/2023/104, Dated – 10.04.2023.

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. 1,31,14,780/- (Rupees One Crore Thirty One Lakhs Fourteen Thousand Seven Hundred Eighty Only)** (after Negotiation) excluding GST which is **3.998%** (Three decimal Nine Nine Eight percent) above the **Estimated cost** put to tender of Rs. 1,26,10,521.00/- (excluding GST).
2. Dy. General Manager (Engg-Elect.), AAI, NSCBI Airport shall be the Engineer-In-Charge of the work and AGM (Engg-Elect.), Manager(Engg-Elect.) and Asst. Manager (Engg-Elect.) AAI, NSCBI Airport, Kolkata shall be his authorized representative.
3. You are requested to attend the office of the Dy. General Manager (Engg-Elect.), AAI, NSCBI Airport, Kolkata by 15.05.2023 to sign and complete the contract agreement. The contract agreement shall be executed on non-judicial stamp paper of West Bengal Govt. of value Rs.100/- (Rupees One Hundred only) and the cost of the stamp paper shall be borne by you.
4. Please deposit an amount of **Rs. 13,11,478/- (Rupees Thirteen Lakhs Eleven Thousand Four Hundred Seventy Eight only)** towards Security Deposit within 10 days from the date of issue of this letter failing to which the same will be deducted as per condition of Clause no. 1A at GCC page no. 16 of contract document.
5. You are requested to comply with the provision 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 Govt.

6. You are also directed to contact AGM (Engg-Elect.), Manager (Engg-Elect.) and Asst. Manager (Engg-Elect.), AAI, NSCBI Airport, Kolkata immediately who will arrange to hand over the site to you.
7. Please note that the time allowed for carrying out the work shall be **05 (Five) Months** and same shall be reckoned from the 10th day from the date of issue of this letter.
8. You are requested to submit valid GST invoice as per GST act mentioning the GSTIN, indicating the GST rates applicable and input tax credit details if any for processing the bills mentioning the AAI, NSCBI Airport, Kolkata GST no. 19AAACA6412D1Z5.
9. Any further correspondence in connection with the contract should be addressed to the Engineer-in-charge.
10. Please acknowledge the receipt and return the duplicate copy of this letter enclosed herewith after duly signed and stamped to the undersigned as a token of acceptance.

Yours faithfully,


(Swapan Sarkar)

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: AAI Kolkata Airport

Name of Work: Re-construction of G-Taxiway and allied work at NSCBI Airport Kolkata. (SH: Electrical Works)

Contract No: 2023_AAI_140689_1

Name of the Bidder/ Biddin	M/s. Balaji Engineering					
PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)						
NUMB	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	Designing of Airfield Ground Lighting System as per ICAO - Annexure 14 / DGCA CAR for the area under this scope of work comprising the following: i) Lighting Lay out. ii) Mandatory and information Sign lay out and individual board design. iii) Prmary and secondary cable layout iv) Circuit design as per existing ALCMS (Make : Honeywell) and the airport requirement. v) Load calculation and CCRs capacity determinations. vi) Quantification of various elements like fittings, cables and Isolating transformers etc. It also includes GPS based co-ordinates by using total station and preparation of GFC drawing for approval and identifying the locations of light fixtures for light installation as pe the approved GFC drawing, preparing of as built drawing wiht GPS co-ordinates and submission of reports / drawings in AUTOCAD, PDF, Hard copies etc. as required and as per directions of the Engineer In charge.	1.00	Job	590000.00	590000.00	INR Five Lakh Ninety Thousand Only
2	Supply of Inset, bi-directional, Medium intensity, suitable for ICAO CAT I & II & III all weather operation, FAA Approved or its model variant for ICAO compliant, LED TAXIWAY CENTRE LINE fitting for straight / Curve section (as per the design), complete with lamps, driver, cable lead with plug, prism assembly, optical assembly, "O" ring seal, hardware and all standard accessories, ready for site installation along with shallow base as per site requirement etc. complete as required. It shall be compatible to exisitng ALCMS (Honeywell). (For Curve / staright Section, Green / Green or Green / Yellow as per the site requirment / design) Bi directional Taxiway Centre Line fitting (Curved) (Green/Green)	14.00	Nos.	40000.00	560000.00	INR Five Lakh Sixty Thousand Only
3	Supply of Inset, bi-directional, Medium intensity, suitable for ICAO CAT I & II & III all weather operation, FAA Approved or its model variant for ICAO compliant, LED TAXIWAY CENTRE LINE fitting for straight / Curve section (as per the design), complete with lamps, driver, cable lead with plug, prism assembly, optical assembly, "O" ring seal, hardware and all standard accessories, ready for site installation along with shallow base as per site requirement etc. complete as required. It shall be compatible to exisitng ALCMS (Honeywell). (For Curve / staright Section, Green / Green or Green / Yellow as per the site requirment / design) Bi directional Taxiway Centre Line fitting (Straight) (Green/Green)	23.00	Nos.	40000.00	920000.00	INR Nine Lakh Twenty Thousand Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
4	Supply of Inset, omni-directional, Medium intensity, suitable for ICAO CAT I & II & III all weather operation, FAA Approved or its model variant for ICAO compliant, LED TAXIWAY Edge Light fitting, complete with lamps, driver, cable lead with plug, prism assembly, optical assembly, "O" ring seal, hardware and all standard accessories, ready for site installation along with shallow base as per site requirement etc. complete as required. It shall be compatible to existing ALCMS (Honeywell). (For TWY edge light / taxiway edge light/ apron edge light : omnidirectional blue)	16.00	Nos.	40000.00	640000.00	INR Six Lakh Forty Thousand Only
5	Supply of Inset, uni-directional, Yellow, Medium intensity, suitable for ICAO CAT I & II & III all weather operation, FAA Approved or its model variant for ICAO compliant, LED Intermediate Holding Position fitting, complete with lamps, driver, cable lead with plug, prism assembly, optical assembly, "O" ring seal, hardware and all standard accessories, ready for site installation along with shallow base as per site requirement etc. complete as required. It shall be compatible to existing ALCMS (Honeywell).	12.00	Nos.	45000.00	540000.00	INR Five Lakh Forty Thousand Only
6	SITC of FAA Approved or its model variant for ICAO compliant, LED type Guidance signage board of various sizes made of anodized 2 mm thick Aluminum frame with suitable angle support and 1.5 mm thick Aluminum backcover 4 mm thick polycarbonate sheet with glare free front face, screen printed (on inside screen) letter and symbol with required colouring.	3.00	Sqm.	75000.00	225000.00	INR Two Lakh Twenty Five Thousand Only
7	Supply of FAA certified model or its variant for earthed application, 5000 V , 50 HZ, series Isolating Transformer (earthed) 65 watt, 6.6 A / 6.6 A for AGL application, suitable for power line communication existing ALCMS.	65.00	Nos.	12500.00	812500.00	INR Eight Lakh Twelve Thousand Five Hundred Only
8	Supply of following size (s), FAA certified 5 KV grade, multi stranded tinned copper conductor, XLPE insulated, tinned copper braid shielded (maximum shield resistance shall not be more than 5 ohm / KM at ambient temperature of 50 degree Centigrade) anti termite and anti rodent, single core and with inner and outer semi conductor, halogen free, underground cable for airfield lighting etc. complete as required. a) 6 sq mm	2000.00	Mtrs	285.00	570000.00	INR Five Lakh Seventy Thousand Only
9	Supply of FAA certified 2C x 4 sq.mm. 600V grade flexible annealed tinned copper conductor secondary cable for Airport lighting circuits etc. complete as required.	5000.00	Mtrs	200.00	1000000.00	INR Ten Lakh Only
10	Supply of Fire retardant Yellow/Green 4 sq mm Single Core PVC Insulated Industrial Grade Copper Conductor (Unsheathed) Flexible Cables, of 450/750 V conforming to BS 6004:2000 or upto 1100 Volts conforming to IS 694:1990 .	5000.00	Mtrs	60.00	300000.00	INR Three Lakh Only
11	Supply of following sizes(s) FAA certified, 5 KV grade dry type plug and receptacle of type I, class 'B' primary connector kit with field attachment and suitable for shielded airfield cable cable with firm earth continuity for ALCM / ILCMS etc. complete as required. a) 6 sq. mm	75.00	Set	2000.00	150000.00	INR One Lakh Fifty Thousand Only
12	Supply of FAA certified Secondary connector kit suitable for connection 2X 4 sq mm multi stranded annealed conductor, unshielded secondary airfield lighting cables etc. complete as required.	75.00	Set	1800.00	135000.00	INR One Lakh Thirty Five Thousand Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
13	Supplying and laying of 1 run X 50 mm dia (OD), UV stabilized, HDPE pipe (PE- 63, PN-6) as per IS - 4984 and IS marked with upto date ammendment along with accessories like socket, bend, couplers etc. complete with fitting, cuttings, jointing etc. below the ground (i/c Road crossing ,Cement concrete Apron Area, Runway, taxiway) at a depth upto 6 m through horizontal directional drilling etc. complete as required after doing Ground Penetrating radar survey and submitting its report etc.complete as required.	200.00	Mtrs	500.00	100000.00	INR One Lakh Only
14	Supplying and laying of 1 run X 50 mm dia (OD), UV stabilized, HDPE pipe (PE- 63, PN-6) as per IS - 4984 and IS marked with upto date ammendment along with accessories like socket, bend, couplers etc. complete with fitting, cuttings, jointing and laying the same in the existing trench/soil/gravel area/alongwith PQC work complete as required.	1000.00	Mtrs	150.00	150000.00	INR One Lakh Fifty Thousand Only
15	Design, Fabrication, supply & installation of MS isolating 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 (counter sunk fitting) including transformer and ASD rust proof hanging arrangement to maintain ASD separation, suitable holes for drain, primary and secondary cabling etc.. All inserts should be suitable for M-10 size bolt i/c supply of M 10 SS Bolt including painting of box with one coat of primer & two coats of black enamel paint and installation with civil concrete work / existing trench / in soil / gravel along with making suitable slope to level of runway / taxiway all around the housing box as per DGCA requirement and painting, lettering, numbering, earth termination etc. complete as required.	75.00	Nos.	12000.00	900000.00	INR Nine Lakh Only
16	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.	2000.00	Mtrs	20.00	40000.00	INR Forty Thousand Only
17	Providing and fixing 6 SWG dia G.I. wire on surface or in recess or along with cable / pipe for loop earthing etc. as required.	2000.00	Mtrs	20.00	40000.00	INR Forty Thousand Only
18	Making connection of 5 KV grade , 6 Sq mm Copper conductor Screened cable with plug & receptacle i/c copper earth continuity wire for screen etc. complete as required as per installation manual of the OEM.	75.00	Each	350.00	26250.00	INR Twenty Six Thousand Two Hundred & Fifty Only
19	Kerf cutting with machine in taxiway/runway/apron of PQC/bituminous surface of depth upto 70 mm and width upto 20 mm, using expansion joints / construction joints as far as possible, cleaning, drying, disposing FODs including laying 1 or 2 nos secondary lead along with earth cables by wrapping cotton tape, providing polysulphide, primar, backer rod etc. complete as required along with arranging water bowser, mobile DG sets etc. whatever necessary to work in a operational airport.	5000.00	Mtrs	350.00	1750000.00	INR Seventeen Lakh Fifty Thousand Only
20	Kerf cutting with machine in taxiway/runway/apron of PQC/bituminous surface of depth upto 95 mm and width upto 20 mm, using expansion joints / construction joints as far as possible, cleaning, drying, disposing FODs including laying 3 or 4 nos secondary lead along with earth cables by wrapping cotton tape, providing polysulphide, primar, backer rod etc. complete as required along with arranging water bowser, mobile DG sets etc. whatever necessary to work in a operational airport.	500.00	Mtrs	350.00	175000.00	INR One Lakh Seventy Five Thousand Only

Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
21	Making end termination of 2X 4 sq mm multi stranded copper conductor secondary airfield lighting cables with secondary connector kit (plug and receptacle) etc complete as required as per OEM manual.	75.00	Each	200.00	15000.00	INR Fifteen Thousand Only
22	Installation of 8" or 200 mm dia inset fittings including Core Cutting in the PCC/Bitumen Area, providing base grout (netromotor S) and quick setting grout (Dobefil), jigs for fixing shallow can, levelling, alligning, hammer drill, core cutting machine, chisel, water bowser and mobile DG, positioing, connection, interconnections, earthing, fittings , fixings, numbering etc. as required as per the OEM installation manual, coordinating with existing ALCMS (Honeywell) requirement and direction of the EIC.	65.00	Each	6000.00	390000.00	INR Three Lakh Ninety Thousand Only
23	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.	5.00	Cum	6000.00	30000.00	INR Thirty Thousand Only
24	Excavation of hard rock / concrete not exceeding 1.5 metres in width and lift upto 1.5 metres, including getting out the excavated rocks / concrete and disposal of excavated materials as directed within a lead of 1 KM.	10.00	Cum	500.00	5000.00	INR Five Thousand Only
25	Providing of one no vehicle (Bolero/Scorpio/Sumo with AC along with driver, POL for monthly run upto 1800 KM i.e all expense paid for 10 hours a day any time as per site work requirement and one work assitant with 2 years GLF experience with computer & printer for 6 days a week etc. complete as required.	5.00	Month	50000.00	250000.00	INR Two Lakh Fifty Thousand Only
26	Supply & fabrication of Cable Chamber with M.S. Tubular section /M.S. Square section /M.S. Plates i/c cutting to required length, welding & fixing the members to RCC/Brick structure/Pre-fabricated structure with anchor fastners as per releavent drawing and direction by the Engg. -in-Charge and as required at site.	3000.00	Kg	120.00	360000.00	INR Three Lakh Sixty Thousand Only
27	SITC of single channel Automatic Switching Device (ASD) V4+ compitable to the existing ALCMS / ILCMS and LED fittings supplied for single lamp monitoring etc. complete as required.	50.00	Each	35000.00	1750000.00	INR Seventeen Lakh Fifty Thousand Only
28	Modification of the existing ALCMS for integration of new AGL fittings of G-Taxiway in the existing ALCMS of NSCB I Airport, Kolkata, including creation of new Graphics and provision of all required hardwares for completion of the work as required or as directed by the Engineer-in-Charge.	1.00	Job	1500000.00	1500000.00	INR Fifteen Lakh Only
Total in Figures					13923750.00	
Less Rebate @5.81%					-808970	
Quoted Amount after Rebate (Negtiation)					13114780	
Quoted amount in Words		INR One Crore Thirty One Lakh Fourteen Thousand Seven Hundred & Eighty Only				

Swaha
DGM(E-E)
04/05/2023

उपमहाप्रबन्धक (अभि. विद्.)
Dy. General Manager (Engg-Elect)