



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

NO: AAC/EMD-II/1001(105)/ 191

Dated: 22.06.2023

To

M/s Honeywell Automation India Ltd.

56 & 57 Hadapsar Industrial Estate,

Maharashtra, Pune-411 013.

Mob.: +91 9841803458

Email: na.magesh@honeywell.com

Name of Work: Integration of CAT-I Approach Circuits of Primary Runway (19L/01R) with existing ALCMS and Associated Electrical Work at NSCBI Airport, Kolkata.

Ref: i) Your e-bid No 2023_AAI_142159_1, opened on dated 21.04.2023 (Financial Bid)

ii) 1st Negotiation vide email dated 09.05.2023

iii) Minutes of the Negotiation Meeting (2nd Negotiation) Ref No.-AAC/EMD-II/CAT-I Intg/2023, Dated - 22.05.2023.

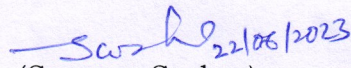
Dear Sir(s),

1. Your negotiated offer for the work mentioned above 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. 7,50,00,000.00** (Rupees Seven Crore Fifty Lakhs Only (after Negotiation) excluding GST which is **6.13%** (Six decimal One Three percent) below the Justified cost of Rs. 7,98,97,907.39 (excluding GST).
2. Jt. 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 Jt. General Manager (Engg-Elect.), AAI, NSCBI Airport, Kolkata by 02.07.2023 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. 75,00,000/-** (Rupees Seventy Five Lakhs 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.

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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 **08 (Eight) 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)

Jt. General Manager (Engg-Elect.)

Encl: (i) Schedule of Quantity.
(ii) Form III.

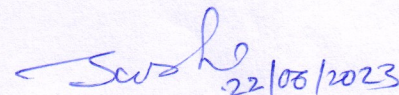
Copy to:

- 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.

N.O.O.

Copy to:

- 4) General Manager Engg. (Elect.), AAI, NSCBIA, Kolkata-52.
- 5) General Manager (F & A), AAI, NSCBIA, Kolkata-52.
- 6) Asstt. General Manager Engg (Elect)
- 7) Manager (E-E).
- 8) Asstt. Manager (E-E).
- 9) Agreement.


(Swapan Sarkar)

Jt. General Manager (Engg-Elect.)

Validate

Print

Help

Item Rate BoQ

Tender Inviting Authority: AAI Kolkata Airport

Name of Work: Integration of CAT-I Approach Circuits of Primary Runway (19L/01R) with existing ALCMS and Associated Electrical Work at NSCBI Airport, Kolkata.

Contract No: 2023_AAI_142159_1

Name of the Bidder/ Bidding

Honeywell Automation India 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)

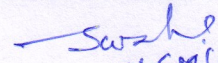
NUMBER	TEXT #	NUMBER #	TEXT #	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	BASIC RATE In Figures To be entered by the Bidder Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT In Words
1	Supply of Inset, Uni-directional, high intensity, suitabel for CAT III all weather operation, FAA Approved or its model variant for ICAO compliant, LED RUNWAY Approach light fittin, complete with LEDs, driver, cable lead with plug, fail open relays, 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 suitable for exisiting ALCMS (Honeywell). Colour : White (approach centre line and cross bar application)	100.00	Nos.	75264.00	7526400.00	INR Seventy Five Lakh Twenty Six Thousand Four Hundred Only
2	Supply of Inset, Uni-directional, high intensity, suitabel for CAT III all weather operation, FAA Approved or its model variant for ICAO compliant, LED RUNWAY Approach light fitting complete with LED lamps, driver, cable lead with plug, fail open relays, 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 suitable for exisitng ALCMS (Honeywell). Colour : Red (approach side row application)	60.00	Nos.	75264.00	4515840.00	INR Forty Five Lakh Fifteen Thousand Eight Hundred & Forty Only
3	Supply of Elevated, Uni-directional, high intensity, suitabel for CAT III all weather operation, FAA Approved or its model variant for ICAO compliant, LED RUNWAY Approach light fitting complete with LED lamps, driver, cable lead with plug, fail open relays, prism assembly, optical assembly, "O" ring seal, hardware and all standard accessories, ready for site installation along with base plates, frangible coupling (wind velocity withstanding capability of 480 KM/H) as per site requirement etc. complete as required. It shall be suitable for exisiting ALCMS (Honeywell). Colour : White (approach centre line and cross bar application)	75.00	Nos.	31360.00	2352000.00	INR Twenty Three Lakh Fifty Two Thousand Only
4	Supply and testing of IP -65, Single Channel Addressable Switch Devices for selective switching and monitoring of individual lamp in constant current series circuits (AGL curcuits) suitable for operation with LED and Halogen fittings and exitings ALCMS by M/s Honeywell etc. complete as required.	500.00	Nos.	25502.00	12751000.00	INR One Crore Twenty Seven Lakh Fifty One Thousand Only
5	Integration, testing and commissioning of both CAT-I circuits of both approaches with the existing ALCMS by software modification, new programming, ASDs mapping, CCRs integration, graphics creation / modification, connections, wiring, fitting, fixing, GPS based surveying, if required, and providing hardwares, if any etc. complete as required for single lamp control and monitoring with report generation and necesary documentation for submission to DGCA as per the requirement.	1.00	Job	1703131.00	1703131.00	INR Seventeen Lakh Three Thousand One Hundred & Thirty One 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
6	Supply of 200W , 5 KV, 50 Hz, 6.6/6.6 A, FAA certified or its model variant for earth type, fully encapsulated Isolating transformer for AGL single series circuit (earthed type) etc. complete as required.	250.00	Nos.	20071.00	5017750.00	INR Fifty Lakh Seventeen Thousand Seven Hundred & Fifty Only
7	Supply of 500W , 5 KV, 50 Hz, 6.6/6.6 A, FAA certified or its model variant for earth type, fully encapsulated Isolating transformer for AGL single series circuit (earthed type) etc. complete as required.	30.00	Nos.	25088.00	752640.00	INR Seven Lakh Fifty Two Thousand Six Hundred & Forty Only
8	Supply of FAA certified Secondary connector kit suitable for multi stranded annealed conductor, unshielded secondary airfield lighting cables of size upto 2X6 sq.mm etc. complete as required.	30.00	Nos.	2509.00	75270.00	INR Seventy Five Thousand Two Hundred & Seventy Only
9	Supply of FAA certified Secondary connector kit suitable for multi stranded annealed conductor, unshielded secondary airfield lighting cables of size upto 2X4 sq.mm etc. complete as required.	250.00	Nos.	2258.00	564500.00	INR Five Lakh Sixty Four Thousand Five Hundred Only
10	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 cable gland , earth continuity without crimping, suitable for multiple cable size and water tight etc. for ALCM / ILCMS requirement etc. complete as required. a) 6 sq. mm	300.00	Nos.	2509.00	752700.00	INR Seven Lakh Fifty Two Thousand Seven Hundred Only
11	Supply of FAA certified 2C x 4 sq.mm. 600V grade flexible annealed tinned copper conductor , EPR insulated & CPE (Chlorinated Polyethylen, cross - linked, heavy duty) / PCP (Polychloroprene) outer sheath (Black colour) secondary cable for Airport lighting circuits etc. complete as required.	8500.00	Rmt.	251.00	2133500.00	INR Twenty One Lakh Thirty Three Thousand Five Hundred Only
12	Supply of FAA certified 2C x 6 sq.mm. 600V grade flexible annealed tinned copper conductor , EPR insulated & CPE (Chlorinated Polyethylen, cross - linked, heavy duty) / PCP (Polychloroprene) outer sheath (Black colour) secondary cable for Airport lighting circuits etc. complete as required.	1500.00	Rmt.	377.00	565500.00	INR Five Lakh Sixty Five Thousand Five Hundred Only
13	Supply of following size (s), FAA certified 5 KV grade, multi stranded tinned copper conductor, XLPE insulated, tinned copped braid shielded (maximum sheild resitance 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.	27368.00	Rmt.	357.50	9784060.00	INR Ninety Seven Lakh Eighty Four Thousand & Sixty Only
14	Supply of Fire retardant Yellow/Green 1X4 sq mm Single Core PVC Insulated Industrial Grade Copper Conductor (Unsheathed) Flexible Cables, of 450/750 V confirming to BS 6004:2000 or upto 1100 Volts confirming to IS 694:1990 in the existing pipe / boxes etc.	10000.00	Rmt.	82.00	820000.00	INR Eight Lakh Twenty Thousand Only
15	Supply & Laying of following size permanently lubricated HDPE (high density polyethylene) pipe alongwith its necessary accessories like coupler,end plugs etc. below the ground (i/c Road crossing ,Cement concrete Apron Area) at a depth of approx. 1.5 m to 6 mtrs 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 50 mm.	10000.00	Rmt.	565.00	5650000.00	INR Fifty Six Lakh Fifty Thousand Only
16	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 uptodate ammendment along with accessories like socket, bend, couplers etc. complete with fitting, cuttings, jointing and laying the same in the existing trench complete as required.	15000.00	Rmt.	138.00	2070000.00	INR Twenty Lakh Seventy 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
17	Excavation of the trench in hard rock / bitumenous or cement concrete of runways/taxiways/ apron/RESA/ Road etc. not exceeding 1.5 mtr in width, and lift upto 1.5mtr, including getting out the excavated soil and disposal of excavated soil as directed within a lead of 5 KM including all machineries like power saw, hammer drill / pneumatic drill, water browser, mobile DG set, transportation etc. complete as required.	3000.00	Cum	1881.60	5644800.00	INR Fifty Six Lakh Forty Four Thousand Eight Hundred Only
18	Excavation of the trench in soft soil not exceeding 1.5 mtr in width, and lift upto 1.5mtr, including back filling as directed by the Engineer-In-Charge.	3000.00	Cum	627.20	1881600.00	INR Eighteen Lakh Eighty One Thousand Six Hundred Only
19	Providing and laying in position cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) etc including form work etc as as directed by the Engineer-In-Charge.	150.00	Cum	9408.00	1411200.00	INR Fourteen Lakh Eleven Thousand Two Hundred Only
20	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 shunk fitting, th top cover will also have round blank plate with M-10 nuts and bolts which will be replaced by fittings base plate wherever required.) including rust proof hanging arrangement for transfoer and ASD, side holes for cable entry as required and earth studs (inside and outsides) with nuts washers. 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 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 cuttingg, levelling, fixing, painting, lettering, numbering etc. complete as required.	250.00	Job	19444.00	4861000.00	INR Forty Eight Lakh Sixty One Thousand Only
21	Installation, testing and commissioinig of 300 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 drilling, chiselling, arranging water bowser and mobile DG, positioing, connection, interconnections, earthing, installation of fittings ,installation of Isolation Transformers, ASDs, numbering etc. as required as per the OEM installation manual, coordinating with existing ALCMS (Honeywell) requirement and direction of the EIC.	160.00	Each	12544.00	2007040.00	INR Twenty Lakh Seven Thousand &Forty Only
22	SITC of adopter Box of size 330 mm Dia X 150 mm Deep made of MS (body 6 mm and top 10 mm) including Core Cutting in the PCC/Bitumen Area, providing base grout (netromotor S) and quick setting grout (Dobefil), arraging jig, hammer drill, core cutting machine, chisel, water bowser and mobile DG etc. and installation of Elevated Fitting on the collars as required.	75.00	Each	8154.00	611550.00	INR Six Lakh Eleven Thousand Five Hundred & Fifty Only
23	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.	2000.00	Rmt.	564.50	1129000.00	INR Eleven Lakh Twenty Nine Thousand Only
24	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, primer, backer rod etc. complete as required along with arranging water bowser, mobile DG sets etc. whatever necessary to work in a operational airport.	2000.00	Rmt.	564.50	1129000.00	INR Eleven Lakh Twenty Nine 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
25	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 existing cable duct / masonry trench / RCC / HUME / METAL / GI / HDPE pipes etc. as required.	27368.00	Rmt.	44.00	1204192.00	INR Twelve Lakh Four Thousand One Hundred & Ninety Two Only
26	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size along with 4 sq mm earth wire by wrapping itself alongwith the following size cable with black tape in the existing RCC/ HUME/HDPE/ METAL pipe as required. Upto 35 sq. mm	11500.00	Rmt.	44.00	506000.00	INR Five Lakh Six Thousand Only
27	Providing & laying 6SWG G. I. wire on surface or in recess for loop earthing as required.	27368.00	Each	38.00	1039984.00	INR Ten Lakh Thirt Nine Thousand Nine Hundred & Eighty Four Only
28	Making connection of 5 KV grade , 6 Sq mm Copper conductor Screened cable with plug & receptacle i/c providing copper lugs and 4 sq mm tinned copper PVC insulated ISI marked wire for earth continuity and grounding wherever required etc. complete as required.	300.00	Each	628.00	188400.00	INR One Lakh Eighty Eight Thousand Four Hundred Only
29	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.	250.00	Each	377.00	94250.00	INR Ninety Four Thousand Two Hundred & Fifty Only
30	Making end termination of 2X6 sq mm multi stranded copper conductor secondary airfield lighting cables with secondary connector kit (plug and receptacle) etc complete as required.	30.00	Each	377.00	11310.00	INR Eleven Thousand Three Hundred & Ten Onl
31	Making temporary arrangement to keep the Operation alive etc as per directions of the Engineer In charge as per NOTAM and phasing of work for primary runway/ taxiway and secundary runway by providing all materials other than cables and fittings with lamps, isolating transformers and joints of cables as and when required, including removing temporary arrangement, fittings, fixing, co-ordination with maintenance team etc. complete as required.	1.00	Job	25088.00	25088.00	INR Twenty Five Thousand &Eighty Eight Only
32	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 assistant with 2 years GLF experience, computer knowledge, and one computer & and printer for 6 days a week etc. complete as required.	8.00	Months	75264.00	602112.00	INR Six Lakh Two Thousand One Hundred & Twelve Only
33	Carrying out photometry test of all newly installed fittings as per laid down specifications by DGCA CAR / ICAO and submitting the document to DGCA and also doing the same testing during DGCA inspection if required etc. complete as required.	1.00	Job	376320.00	376320.00	INR Three Lakh Seventy Six Thousand Three Hundred & Twenty Only
34	Dismantling of cables, IT boxes, pipes etc and carrying to the store, keeping in safe custody and handing over the same to AAI as per instruction of the EIC.	1.00	Job	2509.00	2509.00	INR Two Thousand Five Hundred & Nin Only
35	Removal of inset fittings shallow can from Runway / RESA/ Apron Taxiway by core cutting method without damaging the pavement so that new fittings can be installed in the same place etc. including applying DG sets, core cutting machine, water bowser etc. any other equipments required complete as required.	200.00	Each	439.00	87800.00	INR Eighty Seven Thousand Eight Hundred 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
36	Dismantling and removal of elevated approach fittings at 19L side of Main runway and carrying the same to AAI store, keeping in safe custody and handing over to AAI in good condition to enable installation of new LED fittings etc. complete as required.	100.00	Each	439.00	43900.00	INR Forty Three Thousand Nine Hundred Only
Total in Figures					79891346.06	
Less discount after 1st Negotiation					3991959.74	
Total amount after 1st Negotiation					75899386.32	
Less discount after 2nd Negotiation					899386.32	
Total amount after 2nd Negotiation					75000000.00	
Quoted Rate in Words		INR Seven Crore Fifty Lakh Only				


 JtGM (E-E)
 22/06/2023

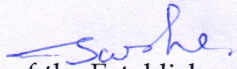
FORM - III

[See Rule - 21 (2)]

Form of certificate by Principal Employer

Certified that:

- I have engaged the applicant of **M/s Honeywell Automation India Ltd**, 56 & 57 Hadapsar Industrial Estate Maharashtra, Pune-411 013 as a contractor in my establishment for the work: Integration of CAT-I Approach Circuits of Primary Runway (19L/01R) with existing ALCMS and Associated Electrical Work at NSCBI Airport, Kolkata.
- I undertake to be bound by all the provisions of the Contract Labour (Regulation & Abolition) Act, 1970 (37 of 1970) and Contract Labour (Regulation & Abolition)/ Central rules, 1971 in so far as the provisions are applicable to me in respect of the employment of contract labour by the applicant in my establishment.
- The engagement of contract labour in the said work is not prohibited section (I) of section 10 of the Contract Labour (Regulation & Abolition) Act, 1970 (37 to 1970) or an award or a settlement.


Signature of Principle Employer of the Establishment
Certificate of Registration No. (2-6582-1370-3)

Dated: 22.06.2023

Place: N.S.C.B.I. Airport, Kolkata.

Date: 22.06.2023