



भारतीय विमानपत्तन प्राधिकरण
AIRPORTS AUTHORITY OF INDIA

JAS-ANZ



WORK ORDER

संदर्भ सं.: भा.वि.प्रा./सीबीआईए/इंजि(वि)/ ओ एंड सीएमसी एचवीएसी/डब्ल्यू-20/2022-23 दि: 20.01.2023

Ref. No: AAI/CBIA/ENGG (E)/O&CMC HVAC /W-20/2022-23

Date: 20.01.2023

To

BY SPEED POST

M/s. Genius Aircon Private Limited,
No 24, SRP Colony,
2nd Street, Peravallur,
Chennai-600 082
Mail Id: chennaiservice@geniusaircon.in

कार्य का नाम: कोयंबटूर अंतरराष्ट्रीय हवाई अड्डे पर ई एंड एम प्रतिष्ठानों का एआरएमओ। उ.शी : 3x330 टी.आर. एचवीएसी संयंत्र और सहायक उपकरणों के संचालन और व्यापक रखरखाव के लिए नौकरी अनुबंध (02 वर्षों के लिए)। **Name of Work: ARMO of E&M Installations at Coimbatore International Airport. SH: Job contract for Operation and Comprehensive Maintenance of the 3x330 TR HVAC plant and ancillary equipments (For 02 years).**

संदर्भ: निविदा आईडी- 2022_एएआई_135463_1 / Ref: Tender ID- 2022_AAI_135463_1

प्रिय महोदय / Dear Sir,

- 1) उपर्युक्त कार्य के लिए आपका निविदा, अध्यक्ष, भारतीय विमानपत्तन प्राधिकरण की ओर से आपके द्वारा की गई मद दरों कुल रु 1,69,64,972.00 (रुपये एक करोड़ उनहत्तर लाख चौंसठ हजार नौ सौ बहत्तर मात्र प्लस जीएसटी) पर स्वीकार किया जाता है जो कि न्यायोचित लागत रु 2,02,07,446.00 से 16.05% कम है। Your bid for the above mentioned work is accepted on behalf of Chairman, Airports Authority of India at the item rates quoted by you totalling to Rs. 1,69,64,972.00 (Rupees One Crore Sixty Nine Lakhs Sixty Four Thousand Nine Hundred and Seventy Two Only) plus applicable GST which is 16.05% below the justified cost of Rs. 2,02,07,446.00.
- 2) संयुक्त महा प्रबंधक (इ-वि), भा. वि. प्रा. कोयंबटूर अंतरराष्ट्रीय हवाई अड्डा इस काम के अभियंता प्रभारी होंगे। आपसे अनुरोध है कि आप उन की कार्यालय में 06.02.2023 तक उपस्थित हों कर समझौते पर हस्ताक्षर करना है। अनुबंध समझौते को रु 100.00 (रुपए केवल सौ) के मूल्य के गैर-न्यायिक स्टाम्प पेपर पर निष्पादित किया जाएगा और स्टाम्प पेपर की कीमत आपके द्वारा वहन की जाएगी। Jt. Gen. Manager (Engg-Elect), AAI, Coimbatore International Airport shall be the Engineer-in-Charge of the work. You are requested to attend the office of the Jt. Gen. Manager (Engg-Elect), AAI, Coimbatore Airport by **06.02.2023** to sign and complete the agreement. The contract agreement shall be executed on a non-judicial stamp paper of value of Rs. 100.00 (Rupees Hundred only) and the cost of the stamp paper shall be borne by you.

Coimbatore International Airport, Coimbatore - 641 014

Phone/fax: 0422-2571668

Web Site: www.airportsindia.org.in



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- 3) इस पत्र के जारी होने की तारीख से 10 दिनों के भीतर रू 16,96,497.00 सिक्क्योरिटी डिपॉजिट के रूप में कृपया जमा करें जिसे विफल करते हुए, आपके चल रहे बिलों में उस को घटा दिया जाएगा। Please deposit Rs. 16,96,497.00 (Rupees Sixteen Lakhs Ninety Six Thousand Four Hundred and Ninety Seven Only, excluding EMD) as Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from your running bills.
- 4) आपसे अनुरोध है कि अनुबंध श्रम (विनियमन और उन्मूलन) अधिनियम 1970 और अनुबंध श्रम (विनियमन और उन्मूलन) केंद्रीय नियम 1971 और न्यूनतम मजदूरी अधिनियम और केंद्र और राज्य सरकार के नियमों के प्रावधानों का पालन करें। 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 and minimum wages act and rules there of central and state Government.
- 5) आपको सहायक महा प्रबंधक (इ-वि), भा.वि.प्रा, कोयंबटूर अंतरराष्ट्रीय हवाई अड्डे से तुरंत संपर्क करने का भी निर्देश दिया जाता है, जो आपको साइट सौंपने की व्यवस्था करेंगे। कृपया ध्यान दें कि कार्य करने के लिए अनुमत समय 24 महीने होगा, जिसकी गणना 01.02.2023 से की जाएगी। You are also directed to contact Asst.Gen.Manager (Engg.-Elect) AAI, Coimbatore International Airport immediately who will arrange to handover the site to you. Please note that the time allowed for carrying out the work shall be **24 Months**, which shall be reckoned from **01.02.2023**.
- 6) सभी अनुबंध के संबंध में अन्य पत्राचार के लिए संयुक्त महा प्रबंधक (इ-वि), भा.वि.प्रा कोयंबटूर अंतरराष्ट्रीय हवाईअड्डा का संबोधन करें। Any further correspondence in connection with the contract should normally be addressed to the Jt.Gen.Manager (Engg-Elect), AAI, Coimbatore International Airport.
- 7) आपसे जीएसटी अधिनियम के अनुसार वैध जीएसटी चालान जमा करने का अनुरोध किया जाता है जिसमें जीएसटीआईएन का उल्लेख करते हुए, जीएसटी दरों को लागू करने और भा.वि.प्रा, कोयंबटूर जीएसटी संख्या 33AAACA6412D1ZF का उल्लेख करने वाले बिलों को संसाधित करने पर इनपुट टैक्स क्रेडिट विवरण का संकेत मिलता है। 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 for processing the bills mentioning the AAI Coimbatore GST No.33AAACA6412D1ZF.

Coimbatore International Airport, Coimbatore - 641 014

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- 8) कृपया पावती भेजें। Please acknowledge the receipt.

K. Devadas
23/01/2023

(K Devadas)

संयुक्त महा प्रबंधक (इ-वि),
Jt. Gen. Manager (Engg-Elect),
भा.वि.प्रा, कोयंबतूर अंतरराष्ट्रीय हवाईअड्डा,
AAI, Coimbatore International Airport.

अनुलग्नक/Encl: अनुसूची/Schedule 'A'.

Coimbatore International Airport, Coimbatore - 641 014

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N.O.O.

Copy to:

1. महाप्रबंधक (ई) / दक्षिण क्षेत्र, भा.वि.प्रा., प्रशासनिक भवन, चेन्नई हवाई अड्डे, चेन्नई-27। मेल आईडी: gmeesr@aai.aero | GM (Engg)/SR, AAI, Administrative Building, Chennai Airport, Chennai-27. Mail id: gmeesr@aai.aero.
2. उप महाप्रबंधक (सतर्कता) / दक्षिण क्षेत्र, भा.वि.प्रा., प्रशासनिक भवन, चेन्नई हवाई अड्डे, चेन्नई-27। The DGM (Vigilance)/SR, AAI, Administrative Building, Chennai Airport, Chennai-27. Mail id: jgm-vig-sr@aai.aero.
3. क्षेत्रीय कार्यालय, ईपीएफओ भविष्य निधि भवन, पोस्ट बॉक्स नंबर: 3875, डॉ बाला सुंदरम रोड, कोयंबटूर - 641 018। The Regional Office, EPFO, Bhavishya Nidhi Bhavan, P.B.No:3875, Dr. Balasundaram Road, Coimbatore - 641 018.
4. ईएसआईसी, उप क्षेत्रीय कार्यालय, मरियम्मा कोविल अनुसूचित जनजाति, रामनाथपुरम, सौरीपालायम, कोयंबटूर - 641 045। The ESIC, Sub Regional Office, Mariamman Kovil st, Ramanathapuram, Sowripalayam, Coimbatore - 641 045.
5. श्रम प्रवर्तन अधिकारी (केंद्रीय), राजू स्ट्रीट शिवानंद कॉलोनी, कोयंबटूर-641 012। The Labour Enforcement Officer (Central), Raju Street Sivananadha Colony, Coimbatore-641 012.

आंतरिक | Internal:

1. हवाई अड्डे के निदेशक। भा.वि.प्रा., कोयंबटूर अंतरराष्ट्रीय हवाई अड्डे। | The Airport Director, AAI, Coimbatore International Airport. By E-mail: apdcoimbatore@aai.aero
2. उप महा प्रबंधक (वित्त) - भा.वि.प्रा., कोयंबटूर अंतरराष्ट्रीय हवाई अड्डे। DGM (Finance) -AAI, Coimbatore International Airport. By E-mail: rhayagrivan@aai.aero.
3. सहायक महा प्रबंधक (इ-ई), भा.वि.प्रा., कोयंबटूर अंतरराष्ट्रीय हवाई अड्डे। AGM (Engg-E), Coimbatore International Airport by E-mail: svsenthil@aai.aero.
4. प्रबंधक (इंजी-ई), भा.वि.प्रा., कोयंबटूर अंतरराष्ट्रीय हवाई अड्डे। Manager (Engg-E), AAI, Coimbatore International Airport. By E-mail: eben@aai.aero
5. सीएसओ, भा.वि.प्रा., कोयंबटूर अंतरराष्ट्रीय हवाई अड्डे। CSO, AAI, Coimbatore International Airport. By E-mail: cso-cbe@AAI.AERO

K Devadas
23/01/2023

(K Devadas)

संयुक्त महा प्रबंधक (इ-वि),
Jt. Gen. Manager (Engg-Elect),
भा.वि.प्रा., कोयंबटूर अंतरराष्ट्रीय हवाई अड्डा,
AAI, Coimbatore International Airport.

Coimbatore International Airport, Coimbatore - 641 014

Phone/fax: 0422-2571668

Web Site: www.airportsindia.org.in

SCHEDULE OF QUANTITIES

Name of Work:: ARMO of E&M Installations at Coimbatore International Airport 2022-23 & 2023-24. SH: Job contract for Operation and Comprehensive Maintenance of the 3x330 TR HVAC plant and ancillary equipments (For 02 Years)

SCHEDULE OF WORK / ITEM(S)					
S.No	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
1	Operation of Water cooled Centralised AC plant of 3X330 TR Trane make and all associated ancillary equipments and ventilation fans etc. round the clock in 3 shifts on all days i/c Sundays and holidays by deputing Supervisor, Shift In-charge/skilled, Semi skilled manpower etc. complete as required and as per enclosed detailed specifications.				
1.01	For First Year	12	months	470393.00	5644716.00
1.02	For Second year	12	months	470393.00	5644716.00
2	Comprehensive Maintenance contract for the Centralized Air-Conditioning system consists of 330TR water cooled Chiller Units (Trane make)-03 Nos., Chilled water pumps primary pumps (Kirloskar make)-3 nos. and secondary pump (Grundfoss make)- 3 nos. with VFD drive panel, Condenser water pumps (Crompton make) - 3 nos., Cooling Towers (Advance make)-3 nos., chilled water and condenser water lines, maintenance of water softening plants along with supply of salt for operation, Air Handling Units (Floor mounted and ceiling suspended) (Zeco make) with starter panels - 27 nos. power and Control panels and its associated equipments like bearings, v-belts, canvas, valves, strainers, dampers, diffusers, grills, nozzles, thermostats, switchgears in control panels, electrical meters, contactors, timers etc. and ventilation fans of toilets etc. complete as required for smooth operation of the complete HVAC system. The scope of work also includes carrying out the periodical maintenance/checking of the above equipments as per manufacturers recommendations and/or as per the attached technical conditions.				
2.01	For First Year	12	months	79900.00	958800.00
2.02	For Second year	12	months	79900.00	958800.00
3	Painting of HVAC System such as Pumps, Cooling Tower & other equipments by removal of corrosion with sant paper and painting with corrosion resistant paint to match the adjoining areas for maintaining the equipment in good & non rusting condition.				
3.01	For First Year	1	Job	50000.00	50000.00
3.02	For Second year	1	Job	50000.00	50000.00
4	Supply of following water treatment Chemicals for cooling tower & chiller as and when required during the contract period.				
4.01	Scale inhibitor to handle high hardness (3DT 404 of of NALCO or equivalent product from Ion exchange/Wextech)	1440	Kgs.	255.00	367200.00
4.02	Biocide to handle cooling tower algae (N 3935 of NALCO or equivalent product from Ion exchange/Wextech)	2664	Kgs.	155.00	412920.00

K. D. V. K.

SCHEDULE OF WORK / ITEM(S)					
S.No	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
4.03	Scale inhibitor to handle high silica (3DT 157 of NALCO or equivalent product from Ion exchange/Wextech)	1152	Kgs.	415.00	478080.00
4.04	Corrosion inhibitor to protect MS pipes & copper tubes (3DT 129 of NALCO or equivalent product from Ion exchange/Wextech)	1152	Kgs.	295.00	339840.00
4.05	Biocide to handle bacteria (N 2593 of NALCO or equivalent product from Ion exchange/Wextech)	576	Kgs.	200.00	115200.00
5	Repairing damaged insulation of exposed AC ducts by scrapping and cleaning the surface, applying Cold Bitumin/Adhesives, Supplying and fixing of 50mm thick EPS, TF grade wrapped with thermal barrier and GI wire mesh finished with 12mm thick sand cement (1:4) plastering.	5	Sq.mtr	4500.00	22500.00
6	Supply and Installation of external thermal insulation on ducts with 9mm thick nitril rubber (40Kg/cum) insulation for supply & return air ducts as per the specifications.	250	Sq.mtr	356.00	89000.00
7	Supply and Installation of external thermal insulation on ducts with 50mm thick thermo coal sheet with thermal barrier and wrapped canvas clothes and suitable self adhesive as per the specifications.	30	Sq.mtr	1300.00	39000.00
8	Supply, installation, testing and commissioning of GI adjustable damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc., as per specifications.	6	Sq.mtr	1300.00	7800.00
9	Supplying & fixing of powder coated extruded aluminium Exhaust Air Grills with volume control dampers as per specifications.	6	Sq.mtr	2000.00	12000.00
10	Supply, installation, Testing and commissioning of factory fabricated GSS sheet (0.6mm thickness) metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings/ as per site requirement and specifications complete as required.	50	Sq.mtr	3000.00	150000.00
11	Painting of MS pipes, structures, equipments etc. at all locations with Epoxy paint of required color/shade (two or more coat) over a coat of suitable priming coat after preparation of the surface complete as required.	100	Sq.mtr	900.00	90000.00
12	Painting of MS pipes, structures, equipments etc. at all locations with synthetic enamel paint of required color/shade (two or more coat) over a coat of suitable priming coat after preparation of the surface complete as required.	250	Sq.mtr	250.00	62500.00
13	Supply, Installation, Testing and commissioning of new PVC fills (as per existing) for Cooling Tower (300TR Advance make), suitable to with stand hot water temperature as high 55 degree Celsius including replacement of defective spray nozzle complete as per site requirement. The work includes Dismantling and disposal of old PVC fills and re-fixing the entire parts/items of cooling tower in position after installation of new fills and necessary items such as bolts, Clamps & Nuts etc as per site requirement.	6	Job	25000.00	150000.00

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SCHEDULE OF WORK / ITEM(S)					
S.No	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
14	Casting cement foundation arrangement work for Centrifugal pump including M.S. fabricated Common base and carrying out installation of flexible connectors with anti vibration pads, pump alignment etc., without any service disruption as required. The contractor has to plan for any additional requirements such as extra mobilization of man and material resources requirement etc., so to continue the airport terminal passenger service requirements without causing any disruption.	3	Job	40000.00	120000.00
15	Supply of following size XLPE insulated, PVC sheathed cable with Aluminium conductor armoured power cable of 1.1 KV grade conforming to IS-7098 Part-I / IS 1554 Part 1 amended upto date etc. complete as required.				
15.01	3C 70 sq.mm. Cu. Ar	150	Mtr	2150.00	322500.00
15.02	3C 4 sq.mm. Cu. Ar	250	Mtr	235.00	58750.00
16	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required i/c. dismantling of the old cable wherever required.				
16.01	upto 35 sq.mm.	400	Mtr	190.00	76000.00
16.02	above 35 sq.mm and upto 95 Sq.mm.	1600	Mtr	200.00	320000.00
17	Supplying and making end termination with brass double 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.				
17.01	3C 70 sq.mm. Cu. Ar	6	Nos.	275.00	1650.00
17.02	3C 25 sq.mm. AL. Ar	10	Nos.	275.00	2750.00
17.03	3C 16 sq.mm. AL. Ar	10	Nos.	275.00	2750.00
17.04	3C 10 sq.mm. Cu. Ar	20	Nos.	275.00	5500.00
17.05	3C 4 sq.mm. Cu. Ar	20	Nos.	275.00	5500.00
18	Supply and replacement of butterfly valves of PN 16 rating of following sizes: Body- Cast iron Disc- Stainless Steel Seat- Nitrile rubber O-ring- Nitrile				
18.01	250 mm dia	7	Each	16800.00	117600.00
18.02	200 mm dia	4	Each	10800.00	43200.00
18.03	150 mm dia	1	Each	6700.00	6700.00
18.04	80 mm dia	5	Each	3500.00	17500.00
18.05	40 mm dia	5	Each	3200.00	16000.00
19	Supplying, fixing, testing and commissioning of condenser water pipes of 250 mm dia sizes of MS 'C' class along with necessary clamps, vibration isolators and fittings such as bends, tees etc..including valves, strainers, gauges etc. adequately supported on rigid supports duly painted/buried in ground excavation and refilling etc. as per specification and as required complete in all respect. Note:-The Pipes size 150 mm & below shall be M.S. 'C' class as per IS : 1239 and pipes size above 150 mm shall be welded black steel pipe heavy class as per IS: 3589, from minimum 6.35 mm thick M.S. Sheet for pipes upto 350 mm dia. and from minimum 7mm thick MS sheet for pipes of 400 mm dia and above.	20	Mtr	8400.00	168000.00

K. D. Verma

SCHEDULE OF WORK / ITEM(S)					
S.No	Description	Qty	Unit	Rate(Rs.)	Amount(Rs.)
20	Supplying and fixing of flexible high corrosion resistant FRP sheet removal type cover over the condenser pipes to protect the pipes from corrosion.	100	Sq.mtr	250.00	25000.00
21	Spray painting of electrical Panels at various locations with enamel paint of required colour, approved brand and manufacturer as on required basis.	100	Sq.mtr	125.00	12500.00
	Total Amount(Rs.)				16964972.00

GST extra as applicable

Rupees One Crore Sixty Nine Lakhs Sixty Four Thousand Nine Hundred and Seventy Two Only

K Devadas
28/01/2023
 (K Devadas)
 Jt. Gen.Manager(E-E)

Signature Not Verified

Digitally signed by Senthikumar S V
 Date: 2023.03.24 15:30:06 IST
 Location: eProcurement System for
 Central PSUs