



भारतीय विमानपत्तन प्राधिकरण



AIRPORTS AUTHORITY OF INDIA

No: AAM/ENGG/AMED-VIII/2022-23/W.O-2/AHU/A-30/457

Date: 29.08.2022

**BY SPEED POST/ email**

**WORK ORDER**

To,

M/s. Snowmex Engineers Ltd.,  
3 and 4, Jeevandeep building,  
10 parliament street, central Delhi,  
Delhi 11001.

**Name of Work: Replacement of AHUs of T1 & T4 Terminal Buildings at C.I.A. (Phase-II).**

Ref: 1) Your e-tender 2022\_AAI\_121363\_1 price bid opened on 03.08.2022.

Dear Sirs,

1. Your e tender for the work mentioned above is hereby accepted on behalf of Chairman, Airports Authority of India, at the items rates quoted by you totaling to **Rs.1,74,39,000.00 (Rupees One Crore Seventy Four Lakhs Thirty Nine Thousand Only) Plus applicable GST**, which is 20.53 % below the justified cost of Rs.2,19,45,785.00 (Excluding GST).
2. Dy. General Manager (Engg-Elect)- III, AMED, AAI, Chennai Airport, shall be the Engineer-in-charge of the work. You are requested to attend the office of Dy. General Manager (Engg-Elect)-III, AMED, AAI, Chennai Airport by 05.09.2022 to sign and complete the contract agreement. The contract agreement shall be executed on a non-judicial stamp paper of value of Rs.100/- (Rupees One Hundred Only) and the cost of the stamp paper shall be borne by you.
3. Please deposit an amount of Rs.17,43,900.00 (Rupees Seventeen Lakhs Forty-Three Thousand and Nine Hundred Only) towards Security deposit within 10 days from the date of issue of this letter failing which the same will be deducted as per conditions of Clause IA of page 16 of 132 of GCC of the e-tender 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 and Minimum Wages Act and rules thereof Central and State Governments.
5. You are also requested to contact the Asst. General Manager (Engg-Elect), AMED-VIII immediately who will arrange to handover the site to you.

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फैक्स: 044 - 2256 0008 ई पी ए बी एक्स: 2256 0551, चेन्नई हवाई अड्डे, चेन्नई - 600 027.  
Fax: 044 - 2256 0008 EPABX: 2256 0551, Chennai Airport, Chennai - 600 027.

29/08/2022  
Dm B-E-III



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AIRPORTS AUTHORITY OF INDIA

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6. Please note that the time allowed for carrying out the work shall be **05 (Five) Months with effect from 07.09.2022.**
7. Any further correspondence in connection with the contract should normally be addressed to Engineer-in charge.
8. Please acknowledge the receipt of the same by sending return mail to the undersigned as a token of acceptance.
9. All other terms and conditions shall be as per agreement.

Encl: Schedule of Quantity (02 pages).

Yours faithfully,

(M. Krishnamoorthy)

Dy. General Manager (Engg. -Elect.)-III,  
AAI, Chennai Airport.

## SCHEDULE OF QUANTITY

**NAME OF WORK :** Replacement of AHUs of T1 & T4 Terminal Buildings at C.I.A. (Phase-II)

| Sl No | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Qty | Unit | Rate         | Amount         |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|--------------|----------------|
| 1     | Dismantling the existing air handling unit of following capacity i/c motor, blower and electrical panel with all accessories and handing over to AAI stores,etc complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |      |              |                |
|       | 45000 CFM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7   | Jobs | 30,000.00    | 2,10,000.00    |
| 2     | Supply of factory built floor mounted chilled water double skin type Air Handling Units made of 43mm thick panels consisting of pre plasticised G.I casing of thickness 0.8mm outside layer and 0.8mm inside layer with polyurethane foam(PUF) insulation having 38 kg/cu.M density, factory injected between them by injection moulding machine, complete with blower section with Backward curve blower, blower suitable for static pressure as detailed below, PVC drift eliminators, cooling coil section with aluminium finned copper tubes(tube thickness not less than 0.5mm) cooling coil, filter sections with 50mm thick metal viscous /washable synthetic type air pre-filters, belt drive package with TEFC drive motor of efficiency class IE3 suitable for $415 \pm 10\%$ volts, 50Hz, 3 phase, AC Supply, suitably designed for variable frequency drive applications, drain connections, stainless steel (18G) drain pan with PUF insulation, 150 mm dia. dial type pressure gauges (2 nos.)and industrial type thermometers (2 nos.) at the inlet and outlet of coil, auto purge valve wherever required, necessary vibration isolation arrangement etc., Complete as per specification and of following capacities: |     |      |              |                |
|       | I) 112.5 TR Capacity, 45,000CFM<br>a)K.Calorie per hour-337,500<br>b)C.M Hr.- 76,455<br>c)Rows deep-6<br>d)Static pressure -80mm WC<br>e)Filtration standard-90% efficiency down to 10 Microns<br>f) Supply blowers - 2 Nos                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7   | set  | 14,86,000.00 | 1,04,02,000.00 |
| 3     | Installation, Testing & Commissioning of above air handling units at basement of New Domestic Terminal & New International Terminal for successful operation complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |     |      |              |                |
|       | 45000 CFM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7   | Jobs | 40,000.00    | 2,80,000.00    |
| 4     | Carrying out all necessary and sufficient modification in the existing GI ducting and existing MS Chilled drain water piping during replacement of above capacity AHUs, including termination of existing power and control cables, Fire damper controls, re installation of sensors, necessary thermal insulation for ducts & pipes, etc to enable the commissioning of AHUs complete as required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |              |                |
|       | 45000 CFM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 7   | Jobs | 3,09,000.00  | 21,63,000.00   |

  
 29/08/2022  
 DyM(R-E) -III

| Sl No | Description of Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Qty  | Unit | Rate             | Amount                |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------------------|-----------------------|
| 5     | Supply, installation, testing and commissioning of variable frequency drive starter panels near the AHUs constructed out of 2mm thick CRCA sheet duly powder coated as per specifications. The panel shall have hinged door with ON-OFF interlocks. The panel shall be complete with incoming MCCB/MCB, suitable busbars of aluminium constructions, bus links complete with VFD starter with "HANDS", "OFF", automatic mode selection switch ammeter for each motor, Voltmeter, LED indicating lamps, Auto Manual switch, remote start / stop contacts, earthing connector, Ammeter with selector switch, Voltmeter with selector switch, connecting suitable power and control cabling between starter panel and AHU, earthing, etc. as required complete as per specifications for following capacity AHUs. |      |      |                  |                       |
|       | Incomer - 100 Amp, 25 kA, MCCB<br>Outgoing - 63A, 10kA, MCB complete with 2 Numbers suitable capacity Variable Frequency Drive for 45000 CFM capacity AHU.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7    | Job  | 3,25,000.00      | 22,75,000.00          |
| 6     | Supply, installation, testing and commissioning of GI volume control duct damper complete with neoprene rubber gaskets, nuts, bolts, screws linkages, flanges etc, as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 60   | Sqm  | 14,500.00        | 8,70,000.00           |
| 7     | Fabrication, Supply and fixing of MS supports for chilled water pipelines and ducts from floor and ceiling with 'L' angle, 'C' channel, Plates, threaded rod, etc as required including necessary welding, anchor fastener (wherever required), one coat of primer painting & two coat of enamel painting of approved color etc, as per specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1000 | kg   | 140.00           | 1,40,000.00           |
| 8     | Providing Air Conditioning by hiring split/ductable split type AC of 60% capacity of AHU(112.5 TR) under replacement on per job basis at different locations in the terminal building during shutdown period of AHUs, suitable for operating 3 phase or single phase 440V / 220 supply, consisting of indoor, outdoor unit, stands for keeping the units, flexible refrigerant hose for both suction & discharge up to 50 meters length, power and control cables between the units, drain connections, arrangements of cables, switch board or DB's for control and tapping shall take from nearest switch rooms or DBs including all accessories, arrangement of manpower for operation of above ACs round the clock basis, complete etc as required.                                                        | 7    | Jobs | 1,57,000.00      | 10,99,000.00          |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |      | <b>Total Rs.</b> | <b>1,74,39,000.00</b> |

**Rupees One Crore Seventy Four Lakhs Thirty Nine Thousand Only plus applicable GST.**

*(Handwritten Signature)*  
29/08/2022

**(M. Krishnamoorthy)**  
**Dy. General Manager (Engg. -Elect.)-III**  
**AAI, Chennai Airport.**

**Signature Not Verified**

Digitally signed by M JOSEPHINE  
JULIANA  
Date: 2023.06.05 17:28:21 IST  
Location: eProcurement System for Central  
PSUs