

Ref No: AAI/RHQ-SR/ENGG/AGM (E)/WO-07/2022/29

Date: 21.11.2022

To,

M/s.Snowmex Engineers Limited
3 & 4, Jeevan Deep Building (Annex),
10,Parliament Street
New Delhi- 110001.

**Name of Work : Replacement of AHUs (Phase-I, 8 Nos) of ATS Complex,
Southern Region, Chennai Airport.**

**Sub Head : Replacement of AHUs at ATC Control Tower &
Automation Area.**

Ref: 1. AAI Tender Id: 2022_AAI_130554_1
2. e-Tender (Price Bid) opened: 01.11.2022

Dear Sirs,

1. Your 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.17,57,392.00** (Rupees Seventeen Lakhs Fifty Seven Thousand Three Hundred and Ninety Two Only) Plus applicable GST @ 18% which is 5.67% below the justified cost of **Rs.18,62,943.00** Plus applicable GST @ 18%.
2. Jt. General Manager Engg (E), AAI, Administrative offices, RHQ-Southern Region, Chennai shall be Engineer – in – charge of the work. You are requested to attend this office by **14.12.2022** to sign and complete the contract agreement. The contract Agreement shall be executed on a non-judicial stamp paper of value Rs.100/- (Rupees One Hundred only). The cost of the stamp paper shall be borne by you.
3. Please deposit **Rs.1,75,739.00** (Rupees One Lakh Seventy Five Thousand Seven Hundred and Thirty Nine only) towards Security Deposit within 10 days from the date of issue of this letter, failing which, the same will be deducted from your running bills as per the Clause of 1-A of Clauses of Contract.
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.



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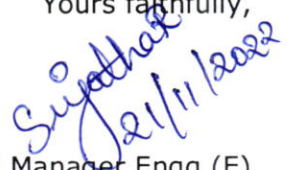
5. You are also directed to contact Asst. General Manager (Engg-E), immediately who will arrange to hand over the site to you.
6. Please note that the time allowed for carrying out the work shall be 06 (Six) Months and same shall be reckoned from **30.11.2022**.
7. Any further correspondence in connection with the contract should normally be addressed to the Jt. General Manager Engg (E), AAI, Administrative Offices, RHQ-Southern Region, Chennai.
8. On completion of work, you are requested to clearly indicate AAI GST No. 33AAACA6412D1ZF in your invoice.
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.

Thanking you,

Encl: 1) Schedule of Quantities – Schedule 'A'

2) E-Sahaj Proforma to be followed for obtaining Airport Entry permit

Yours faithfully,


Asst. General Manager Engg (E)
Airports Authority of India

आर. सुजाता / R. SUJATHA

सहायक महाप्रबन्धक (इंजी.-विद्युत) / Assistant General Manager (Engg.-Electrical)
भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India
प्रचालन कार्यालय कॉम्प्लेक्स / Operational Offices Complex
दक्षिणी क्षेत्र, चेन्नई - 16 / Southern Region, Chennai-16

**AIRPORTS AUTHORITY OF INDIA
SOUTHERN REGION
CHENNAI AIRPORT, CHENNAI 600 027**

SCHEDULE OF QUANTITY

Schedule-A

Name of work : "Replacement of AHUs (Phase-I, 8 Nos.) of ATS Complex, Southern Region, Chennai Airport. SH: Replacement of AHUs at ATC Control Tower & Automation Area".

Sl. no	Description	QTY	Unit	Rate (in Rs.)	Amount (in Rs.)
1	Dismantling the existing air handling units of following capacity i/c motor, blower, cooling coil, electrical panel, Chilled water pipelines at Inlet & Outlet of AHUs upto 3-way mixing valve, etc with all associated accessories and handing over of all dismantled items to AAI stores, including transportatioin, etc complete as required.				
1.1	9.27 TR capacity at ATC control tower	2	Jobs	12000.00	24,000.00
1.2	28 TR capacity at Second floor & Third floor	1	Jobs	16800.00	16,800.00
2	Supply of factory built floor mounted chilled water double skin type Air Handling Units made of 25mm thick panels consisting 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 IE4 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, LED light with door switch, Provision to install UVGI lamps between cooling coil and blower, PCC cubicals to position the base frame of AHUs, necessary vibration isolation arrangement etc., complete as per specification and of following capacities:				

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Sl. no	Description	QTY	Unit	Rate (in Rs.)	Amount (in Rs.)
2.1	a)10 TR Capacity, 5,600 CFM b)K.Calorie per hour-30,000 c)C.M Hr.- 9,515 d)Rows deep-4 e)Static pressure -55mmWC f) Pre-Filter: Having Filtration standard-90% efficiency down to 10 Microns g) MERV-13 Box type filter - 6 nos having size 540x540x300D each & to be fixed on the existing frame in the supply air Plenum. h) Supply blower - 1 No	2	set	210000.00	4,20,000.00
2.2	a)30 TR Capacity, 16,800CFM b)K.Calorie per hour-90,000 c)C.M Hr.- 28,544 d)Rows deep-4 e)Static pressure -75mmWC f) Pre-Filter: Having Filtration standard-90% efficiency down to 10 Microns g) MERV-13 Box type filter - 9 nos having size 540x540x300D each suitable for 2000CFM & to be fixed on the existing frame in the supply air Plenum. h) Supply blower - 1 No	1	set	567000.00	5,67,000.00
3	Installation, Testing & Commissioning of above air handling units at following locations for successful operation i/c refixing of dismantled UV lamp system, etc complete as required. Note: Since the location of item no 3.1 (i.e. 10 TR AHUs) is 30mtr hight from ground level and narrow passage to shift the materail to AHU room, the agencies are requested to inspect the site before gouting their rates.				
3.1	10 TR & 5,600 CFM Capacity at ATC Control Tower (Fifth floor)	2	Jobs	8000.00	16,000.00
3.2	30 TR & 16,800 CFM Capacity at Third floor of ATS Complex	1	Jobs	9500.00	9,500.00

Sl. no	Description	QTY	Unit	Rate (in Rs.)	Amount (in Rs.)
4	The associated works complete to enable the commissioning of AHUs as required as below: a) Necessary modification in the existing GI ducting to made suit the mouth connection with the new AHU including supply & fixing of necessary thermal & acoustic insulation as required b) Necessary modification in the existing MS Chilled water pipeline including supply & fabrication of required new MS 'C' class pipes, 2 nos drain valves, supports, insulation with PUF sections, vapour barrier, GI wire mesh, sand cement plastering, Coloring, etc between butterfly valves & AHU. c) Necessary modification in the existing drain water piping for trouble free draining of condensate water including fabricating, supplying, fixing a 'U' trap with both side flanges (easy removal for cleaning) at the drain outlet of AHU. d) Termination of existing power cable, earth wires, control cables, etc				
4.1	10 TR & 5,600 CFM Capacity at ATC Control Tower (Fifth floor)	2	Jobs	65000.00	1,30,000.00
4.2	30 TR & 16,800 CFM Capacity at Third floor of ATS Complex	1	Jobs	75000.00	75,000.00
5	Supply, installation, testing and commissioning of variable frequency drive (VFD) starter panels with Star-Delta bypass facility 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 connections, LED indicating lamps, Auto Manual switch, remote start / stop contacts, Ammeter with selector switch, Voltmeter with selector switch, necessary provision for Fire Damper controls & BMS controls, providing Connectors for power and control cables, earthing connectors, printed wiring diagram of starter panel, etc. as required complete as per specifications for following capacity AHUs.				
5.1	10 TR & 5,600 CFM Capacity AHU at ATC Control Tower (Fifth floor)	2	Jobs	60000.00	1,20,000.00
5.2	30 TR & 16,800 CFM Capacity AHU at Third floor of ATS Complex	2	Jobs	72000.00	1,44,000.00
6	Supply of following size butterfly valve wafer type with matching flanges, bolt nuts and insulation for chilled water header pipes in the AHU rooms.				
6.1	100 mm dia	2	Set	3200.00	6,400.00



Sl. no	Description	QTY	Unit	Rate (in Rs.)	Amount (in Rs.)
7	Fixing of following size butterfly valves wafer type with matching flanges, bolt nuts, insulation, etc after made cutting in the existing chilled water header pipes of AHU rooms including removal of existing insulation etc complete as required.				
7.1	100 mm dia	2	Jobs	2400	4,800.00
8	Supply of following size butterfly valve wafer type with matching flanges, bolt nuts and insulation for supply & return chilled water pipes of AHUs.				
8.1	80 mm dia	2	Jobs	3200.00	6,400.00
8.2	50 mm dia	4	Jobs	2100	8,400.00
9	Fixing of following size butterfly valve wafer type with matching flanges, bolt nuts, insulation, etc after made cutting in the existing supply & return chilled water pipes of AHUs including removal of existing insulation etc complete as required.				
9.1	80 mm dia	2	Jobs	1950.00	3,900.00
9.2	50 mm dia	4	Jobs	1550	6,200.00
10	Supply of following size balancing valve with matching flanges and insulation				
10.1	80 mm dia	1	Set	9500.00	9,500.00
10.2	50 mm dia	2	Set	7600	15,200.00
11	Fixing of following size balancing valve with matching flanges and insulation				
11.1	80 mm dia	1	Jobs	2500	2,500.00
11.2	50 mm dia	2	Jobs	2000.00	4,000.00
12	Supply of following size MS " Y" Strainer with matching flanges and insulation				
12.1	80 mm dia	1	Set	4300.00	4,300.00
12.2	50 mm dia	2	Set	3400	6,800.00

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Sl. no	Description	QTY	Unit	Rate (in Rs.)	Amount (in Rs.)
13	Fixing of following size MS " Y" Strainer with matching flanges and insulation				
13.1	80 mm dia	1	Jobs	2400	2,400.00
13.2	50 mm dia	2	Jobs	1800.00	3,600.00
14	Supply of following size 3-way Modulating valve with actuator, matching flanges, insulation. Thermostat with temperature adjustment, necessary wiring for normal working, etc complete as required.				
14.1	80 mm dia	1	Set	28000.00	28,000.00
14.2	50 mm dia	2	Set	24000	48,000.00
15	ITC of following size 3-way Modulating valve with actuator, matching flanges, insulation. Thermostat with temperature adjustment, necessary wiring for normal working, etc complete as required.				
15.1	80 mm dia	1	Jobs	2750	2,750.00
15.2	50 mm dia	2	Jobs	2350.00	4,700.00
16	Supply of 25 mm ball valve with MS pipe nipple for AHU Chilled water Header lines	6	Set	650.00	3,900.00
17	Fixing of 25 mm ball valve with MS pipe nipple for AHU Chilled water Header lines	6	Jobs	200.00	1,200.00
18	Supply of industrial type Thermometer with adopter for AHU chilled water line,etc complete as required.	6	Nos	950.00	5,700.00
19	Fixing of industrial type Thermometer with adopter for AHU chilled water line,etc complete as required.	6	Jobs	950.00	5,700.00
20	Supply of dial type Pressure gauges having 150mm dia for AHUs including forged ball valves and pipe stem,etc complete as required.	6	Set	950.00	5,700.00
21	Fixing of dial type Pressure gauges having 150mm dia for AHUs including forged ball valves and pipe stem,etc complete as required.	6	Jobs	950.00	5,700.00

Sl. no	Description	QTY	Unit	Rate (in Rs.)	Amount (in Rs.)
22	Supply of Canvass Connection between AHU & Duct made of fire retardant type cloth etc complete as required.	4	Nos	2000.00	8,000.00
23	Fixing of Canvass Connection between AHU & Duct made of fire retardant type cloth etc complete as required.	4	Jobs	1000.00	4,000.00
24	Supply of Opposed blade G.I Construction box type factory fabricated duct Volume Control Damper made of 18 SWG thick GI Sheet complete with nuts, bolts, screw, linkage, flanges, etc duct lever and quadrants etc complete as required.	2.79	Sqm	7800.00	21,762.00
25	ITC of Opposed blade G.I Construction box type factory fabricated duct Volume Control Damper made of 16 SWG thick GI Sheet complete with nuts, bolts, screw, linkage, flanges, etc duct lever and quadrants etc complete as required.	2.79	Sqm	2000.00	5,580.00
Total amount exlcuding GST Rs.					17,57,392.00
Add: GST @ 18%					3,16,331.00
Total amount i/c GST					20,73,723.00

(Rupees Twenty Lakhs Seventy Three Thousand Seven Hundred and Twenty Three Only including GST)

Sujatha
21/11/2022

Asst.General Manager (Engg-Elect)
AAI,RHQ-SR,Chennai

आर. सुजाता / R. SUJATHA
सहायक महाप्रबंधक (इंजी.- विद्युत) / Assistant General Manager (Engg.- Electrical)
भारतीय विमानपत्तन प्राधिकरण / Airports Authority of India
प्रचालन कार्यालय कॉम्प्लेक्स / Operational Offices Complex
दक्षिणी क्षेत्र, चेन्नई - 16 / Southern Region, Chennai-16

FORMAT-A

TO BE WRITTEN ON LETTER HEAD OF THE CONCERNED
BUSINESS ESTABLISHMENT / CONCESSIONAIRES.

APPLICATION FOR SECURITY CLEARANCE FOR COMMERCIAL ACTIVITIES IN THE
SECURITY RESTRICTED AREA (SRA) AT THE AIRPORTS

(TO BE SUBMITTED THROUGH REGIONAL DIRECTOR, BCAS OFFICE ONLY)

Letter ref. no. of the company

Date:-----

To

The RD,

Delhi / Mumbai / Kolkata / Chennai / Ahmedabad /

Amritsar / Guwahati / Hyderabad and Imphal. (As applicable)

Sir,

Following documents of our company / firm who intends to operate / is
operating as Business Establishment in SRA at _____airport
are submitted in duplicate copies for necessary security clearance and
background checks of our company.

- i. Copy of certificate issue by Registrar of companies or any other central / state govt. Authority registering the company for similar nature of work.
- ii. Company's profile giving details of owner / Directors employees contact addresses (registered office / Branch offices) & telephone no's.
- iii. Copy of latest license fee paid to Airport Director of respective airport.
- iv. Allotment of space to the Business Establishment / Concessionaire by Airport Operator.
- v. Copy of valid contract / agreement with Airport Operator.
- vi. Any other security clearance from BCAS is obtained earlier, if any;
- vii. Total number of staff required

Further, I undertake that neither me nor any of the firms associate had
been involved / Charged in any criminal case in the past.

Our / My firm have not applied for security clearance through other RD
office, except Present application.

I further declare that all the information pertaining to background checks
of the company given here are true and no relevant fact, is concealed by me /
us.

Yours faithfully,

Sign_____

Name_____

Address_____

Contact Tel No_____

Company Seal:

Annexure-II

Fax No. _____

FORMAT A-1

Name and Address of Company:
Whether Company is Indian, Foreign or JVC:

SI. No.	1	2	3	4
Name (with alias of Owner / Director / Key Persons)				
Nationality of Owner / Director / Key Persons				
DoB of Owner / Director / Key Persons				
Present Address of Owner / Director / Key Persons				
Permanent Address of Owner / Director / Key Persons				
Parentage				
PP. No. (Legible copy to enclose)				
ID Proof (Legible copy to enclose)				
Shareholding pattern of the company FDI, if any				

I _____ hereby undertake that all the above particulars and Information are true and best of my knowledge and belief.

Signature
(Name)

Signature Not Verified

Digitally signed by R SUJATHA
Date: 2023.01.27 12:29:47 IST
Location: eProcurement System for Central PSUs