

PR Number : TFSPL-2324-00122

Package / RFQ Name : BOQ for HVAC for Delhi T1-Subway Outlet

Round # : 3 (RFQ)

Buyer : Sarvesh Patil

Technical Score :

Comp. # : 3

Currency :INR

Quotation Date :

BUDGET PRICE :.00

Quotation Validity Date :

Sr No.	Item Code	Item Description	UOM	Qty	Unit Price	Amount
1		BOQ for HVAC for Delhi T1-Subway Outlet	NOS	1		3,41,900.00
1		Note				
2		Prices shall be based on supply, installation, testing commissioning (SITC) at site including all taxes, duties, transportation insurance etc.				
3	1	CHILLED WATER TYPE CEILING SUSPENDED AHU (AIR HANDLING UNIT)				
4	1.1	CEILING SUSPENDED AHU				
5		Supply and assembly of Ceiling Suspended Double skin cabinet type AHU Integrated (Air handling units) of following specifications				
6		Frame Structure It shall consist of 48mm Extruded Aluminium with thermal break profile.				
7		Panel 45mm + - 2mm thick double skin sandwich panels with rockwool insulation of density 64 kg m3 or PUF insulation of 48 kg m3 , The sheet thickness shall be minimum 0.6 mm for the outer skin precoated and 0.8 mm thickness for the inner skin of plain GI.				
8		Mixing Box shall be provided wherever specified in the drawing.				
9		Filtration Section It shall be provided with single stage washable type of prefilter MERV 8 first stage which shall be placed before coil section.				
10		Coil Section Chilled water coil Multi row deep constructed with Aluminium fins of min 0.11mm thick 12 Fins per inch, and copper tubes of min 27 Guage thickness HYRDOPHYLLIC coated fins. Copper tube shall be min 12.5mm diameter. AHRI certified coil.The coil face area velocity shall not exceed 2.5m sec (500 fpm).				
11		Drain Pan Condensate drain pan shall be fabricated from 18G SS 304 powder coated, insulated with 13 mm thick closed cell elastomeric(nitrile rubber) insulation.				
12		Fan Section SISW DIDW Direct drive backward curved fan. The fan section shall be provided with limit switch for safety to shut off fan during Opening of access door. Fan outlet velocity not to exceed 1600 FPM. The sound level shall not be exceed more than 60dB @ 1m from the source. Vibration isolators, Door Limit switch, UV Lamp as per Technical Specifications, AHU Summary Sheet and drawings. Total static pressure has to be calculated by Contractor as per the configuration.				
13		Other Details AHU to house control box terminal box with Auto-Manual switch and incoming power terminal, with SPP, Over Undervoltage protection, shortcircuit protection and with no-nc contacts (potential free contact) to be provided for tripping on signal from Fire Dampers Fire Alarm Panel. Power cable from Terminal box to motor control cabling of required size upto the thermostat sensor etc. to be provided. Internal electrical and control wiring of AHU to be provided as factory fitted from AHU supplier. The cost shall include all necessary supports accessories required for installation.				
14		Contractor shall design the chilled water coil according to the following conditions				
15		a. Coil air entering temperature - 75.4°F DB				
16		b. Coil air leaving temperature - 54 deg. F DB 52.99 deg. F WB				
17		c. Chilled water temperature entering - 7.0 deg. C 44.6 deg. F				
18		d. Chilled water temperature leaving - 12 deg. C 53.6 deg. F				
19		Make VTS Zeco Citizen				
20		Type Capacity Tonnage ESP No. of				
21		(Cfm) TR (mm WG) Rows				
22		CS AHU 2000 4.2 25 4 6	Nos	1		178000
23		GENERAL NOTES				

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24		LHS RHS VALVE station location to be confirmed.				
25		Fan outlet velocity - 1600 FPM				
26		Contractor shall submit static pressure calculation for all above units to Client Consultant.				
27		Any change in motor HP shall be made at no extra cost to client.				
28		Fan efficiency shall be minimum 75%				
29		The cost shall be included lifting shifting of each equipment material with all necessary arrangement. Also, it shall be included the cost of scaffolding required for Installation of such material equipment.				
75	3	VENTILATION SYSTEM				
76	3.1	KITCHEN EXHAUST AIR FAN WITH WET SCRUBBER				
77		SITC of Cabinet type Ventilation fan with Centrifugal Blower, Belt Direct Drive, Statically Dynamically Balanced, Backward Curved Impeller, Speed regulator, Dunlop Anti-Vibration Pads, etc. Motor should be TEFC squirrel cage, IP 55 rating with Class F Insulation, suitable for 3phase, 415volts, 50hz power supply. Sound level should be 65dB @ 3mtr distance. MERV 8 G4 pleated pre-filters should be made of 100% synthetic media to capture common airborne contaminants as per ASHRAE Standard 52.2. Fan shall be BMS compatible. Power will be provided 5 ft away from fan and necessary control wiring with plug will be provided by AC contractor.(Vendor to crosscheck static pressure calculation)				
78		Make Kruger Nicotra Systems Air				
79		EXHAUST FAN WITH OUT OF STREAM MOTOR				
80		650mm @ 25mm ESP	No	1	85400	85,400.00
81		FRESH AIR FAN WITH MERV 8				
82		500mm @ 25mm ESP	No	1	78500	78,500.00
83		Note				
84		Fan outlet velocity - 1600 FPM				
85		All cabinet fans should have plenum section.				
86		Fresh air fan should to have 6mm thick synthetic media washable filter with framework.				
87		Contractor shall submit static pressure calculation for all above units to Client Consultant for their approval. Also, the total static drops across the systems shall cover the overall length from suction discharge to grille (inside the outlet).				
88		Any change in motor HP or coil selection shall be made at no extra cost to client.				
89		Fan efficiency shall be minimum 75%				
90		The cost shall be included lifting shifting of each equipment material with all necessary arrangement. Also, it shall be included the cost of scaffolding required for Installation of such material equipment.				
91		SUB-TOTAL				