

Indian Institute of Technology Kanpur

Samtel Centre for Display Technologies

February 29, 2012.

Enquiry number: SP-SCDT-2012-02

Last date is extended till March 12th, 2012

In addition to the enquiry SP-SCDT-2012-01 dated February 1st 2012 for cleanroom materials, sealed quotations for an alternative design are also invited for comparison from interested suppliers for the supply of following Cleanroom materials set. Items are as per specification given below. The quotation received against the previous enquiry (SP-SCDT-2012-01 dated February 1st 2012) will be considered along with those received in response to the present enquiry.

Sl No	Item Description/ features	Quantity
01	<p>Air Treatment Unit:</p> <ul style="list-style-type: none"> • Gauge: 22/ 24 G GI sheets with 25 mm thickness • Filter sections: Filter section with combination of Pre filter with 10 Micron filters & Fine Filter with 5-micron filter. • Row Deep Dx type Cooling coil section with coils. • Blower section with DIDW blower, drive set Pulley,. • Mixing box with fresh air module, common base frame with vibration isolation pads for motor blower , suitable inspection doors for filter, coil & blower • Flanged connections with VCD at outlet • Heater and humidistat and thermostat to be also included. • System to include all copper piping and cabling. • Complete electrical control panels & cabling of all the air treatment unit <p>1. 12000 CFM/150mm TSP 2. 2200 CFM/125mm TSP 3. 2000 CFM/125mm TSP</p> <p>Makes : Zeco/Edgetech/Saiver</p>	01 Each
02	<p>Refrigeration Unit:</p> <p>capacity :Air-cooled condensing unit of 8.5 TR scroll compressor : Carrier/ Blue Star / Voltas</p> <p>Complete with copper piping, refrigerant gas, HP and LP cu touts, and Thermostatic expansion valves, thermostats for tripping the compressors after reaching the temperature in conditioned area and with suitable insulation of the suction line. Air-cooled Condenser coil with suitable size fan etc. Complete electrical control panels & cabling of all the refrigeration unit</p>	06 Set
03	<p><u>Air Ducting:</u></p> <p>Clean Room Ducting for supply and return air in GI sheet site fabricated as per standards for sheet thickness with all accessories for hanging and silicon sealed, duly insulated with Trocellen sheets of 13 mm and 9 mm for supply / return air. All connections for supply air and return risers to be included as also the air control dampers. Fire Dampers at supply and return of AHU to be also included.</p>	01 (Lot)

	GI Sheet Gauge with – 1. 24 - 720 S. Mt 2. 22 - 160 S. Mt 3 .20 - 110 S. Mt Sheet Make: Jindal/ Tata/Sail	
04	Ceiling Suspended Filtration System: For HEPA Filter of Size: 610X 610mm MOC: MS /CRCA powder coated HEPA CFM 1000 cfm / 500 cfm Each filtration unit comprises HEPA- Mini pleat, MOC: Aluminum, Type: Box Media: micro fibre glass, Efficiency : 99.97% down to 0.3 microns Airflow control dampers with supply air perforated plates.	19
05	Panels A. G. I. Flush Type Door Size: 2.00 m x 2.10 m (L x H) Clean Room GSS pre coated doors with EPS as insulation complete with door frame ; view panel of size 350 x 600 mm with 5 mm float glass both sides ; TS 68 Dorma Door closer ; D type handle with one side Push plate ; Dorma make SS 304 hinges . B Flush Type Modular Partition Sizes: 15.540 m x 2.440 m 15.000 m x 2.440 m 6.000 m x 2.440 m 2.440 m x 2.440 m 4.550 m x 2.440 m 5.440 m x 2.440 m 63/100mm EPS insulated partition & Both side 0.5-0.80 mm Pre-coated G.I. Sheet. C. Window Size: 1 m x 1 m with 4/5 mm glass flushed on both sides D. Door Size: 0.900 m x 2.100 m E. False Ceiling 80/100 mm thick with 0.5-0.80mm Pre-coated G.I. Sheet. Make : Beardsell /Equivalent	2 2 2 1 1 1 8 3 227 S.Mt
06	Wall Panels with ducting for return air : 0.5-0.80 mm thick pre-coated sheets with EPS/PUF insulation and flanged connection for ducts. Make : Beardsell /Equivalent	102 S. Mt.
07	Clean room Lights : 2X36W CFL bottom opening clean room fitting with MS Bottom frame, Non Yellowing acrylic & electronic ballast, Make: Phillips/Crompton/Mayfaire/Candylite / eqvt.	53
08	Magnehelic Gauge: Range:0-60 Pa water gauge, Make : Sensocon/Dwyer	03

09	Air shower (with side blower) for two-person entry MOC: MS powder coated, 18 gauge. Class: 100 Size: Internal 800 x 900 x 2000 mm, External 1700 x 1000 x 2190 mm Electric supply: 415 V, 3 ϕ phase 50 hz (A) HEPA filter - Eff: 99.97% down to 0.3 μ , casing of aluminium (B) Pre-filter - Eff: 90% down to 10 μ , 5 PLY (C) Motor blower assembly – 1 HP, 2800 RPM Make: Crompton/HINDUSTAN/EMPIRE OR Equivalent make with FRP casing, 7" x 4 ½ " dia impeller GI, single shaft FOOT MOUNTED type motor. (D) Air jet Velocity – 25-30 m/s (E) Noise level - 70 db or less from 1 m (F) Other features: (i) 20 W fluorescent tube, Phillips make or equivalent. - 01nos. (ii) Hinge type door with half glass,(iii) Hydraulic door closer will be provided (iv) Electro-magnetic interlocking with emergency release switch (v) At a time one door will be open.	03
10	Garment cabinet- MOC: MS powder coated, 18 gauge, class: standard Size: 6' x 4' x 2' [H x W x D] Electric supply: 230 v, single phase, 50Hz. Features: UV tube light, 15 W Philips or equivalent make, sliding type door, Caster wheel to be provided, Hanger bar to be provided	02

Mention the compliance status of each of the above items in a tabular form.

1. Warranty – mention the warranty
2. Installation, Testing and Validation – mention the testing and validation schedule over all seasons.

Note that those providing longer warranty, better after sales service and support, and more rigorous testing procedure, with written evidence will be given preference.

Terms and conditions

1. Only those supplying ALL of the items shall be considered
2. Quotation should be valid for 90 days

Please send competitive quotations for the FOB/FOR prices in sealed envelopes to the address provided below by March 5, 2012.

Note: Last date is extended till March 12th, 2012

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