



**Enquiry No.:** 33/CHE/SSK

**Enquiry Date:** June 18, 2015

**Closing Date:** June 24, 2015

Sealed quotation(s) in Indian Rupees or USD with all technical details so as to reach latest by 3:00 PM on June 24, 2015 are invited for the supply of following items.

**Note: Price Bid and Technical bid of each instrument should be provided separately with same date and also mention the enquiry number and instrument name on the sealed envelope carrying the quotation.**

### AIR SHOWER ENTRY SYSTEM

Air Showers employ concentrated airflows to lift off contamination such as lint, dirt, dust etc., while an individual simply moves in or walks through a specially constructed chamber. The high velocity air from jet nozzles ensures efficient scrubbing action necessary to remove particulate matter. Contaminated air then flows through sidewalls of the air shower and flows through pre filters and final HEPA filters.

### General Specifications

Air balancing	100% fresh air
Capacity	2 persons
Internal dimensions	W 900 x D 900 x H 1950 mm
External dimensions	W 1500 x D 1000 x H 2200 mm
Entry & Exit Door Size	W 800 x H 1800 mm
Cleanliness	CLASS 10000, (ISO CLASS 7) for particle sizes 0.5 micron & above
Air Velocity	25 METERS / SECOND □ 2
Lighting	18 Watts – 1 Set
Shower duration	0 to 120 seconds - Adjustable
Nozzles	Stainless, fixed – 14 Nos.
Nozzle position	Right / Left / Top
Blower	Outer rotor type, 1 number
Power supply	415 Volt, 3 phase, 50 Hz, 2 KW
Construction	Basic cabinet made of pre treated 18 gauge GI sheet with structural pipe support with complete polyurethane paint coated finish
Doors	Entry & Exit Doors by made of 5 mm clear glass in aluminum square pipe with automatic door closures & electromagnetic interlocking
Type of HEPA Filter	Mini pleat type, made of ultra clean glass fiber paper media assembled in PU coated GI frame. Particle retention 0.3 micron, Efficiency 99.97%, initial pressure drop 16mm WC
Type of Return Air Filter	Made of Synthetic non-woven polyester fibers with fine HDPE mesh reinforcement. Particle retention 10 micron, efficiency 90%, initial pressure drop 6mm WC. These return air filters are capable of collecting the dusts while re-circulating the air back to the HEPA plenum. Dusts collected this way may be re-used by removing the same from the filters by using compressed air or water jet applying from the downstream side of the filters during cleaning.
Controls	Interlocking By Electromagnets Overload protection by thermal relay Shower duration by adjustable electronic timer 0 to 60 seconds Shower operation - semi automatic - by push buttons

**The machine should be duly certified / authorized and the vendor should produce the certificate for the same.**

**Terms & Conditions:**

- I. Price Bid and Technical bid should be provided separately with same date.
- II. Prices (FOB/ High Sea Sales) should include delivery up to nearest airport.
- III. Clearly state the CIF charges to IIT Kanpur and other taxes as applicable.
- IV. Warranty should at least be for 1-3 years after installation.
- V. Validity of quotation should be at least for 90 days.
- VI. The delivery time should be clearly mentioned. Shorter delivery time may be given a preference.
- VII. Technical specifications along with the extent of compliance should be in a separate envelope with proper labels on the envelopes.
- VIII. The delivery period should be specifically stated.

Kindly mention the enquiry number on the sealed envelope carrying the quotation.

The quotation/s may be submitted as per the attached format. Kindly send the sealed quotation(s) to the following address:

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