

**CENTRE FOR RURAL DEVELOPMENT AND TECHNOLOGY
INDIAN INSTITUTE OF TECHNOLOGY-DELHI
HAUZ KHAS, NEW DELHI-110 016**

Dated: 16.12.2016

Notice Inviting Quotations

Sealed quotations in separate envelop of technical and commercial bid kept in one sealed outer envelope, are invited for Fume Hood as per specifications given below. Your sealed quotation should reach **within 15 days** from the date of advertisement to, **Dr. Anushree Malik, Room no: 271, Block III, Centre for Rural Development and Technology, Indian Institute of Technology, Delhi (IIT Delhi), Hauz Khas, New Delhi-110016**. Your quotation must be super-scribed "Fume Hood".

Anushree Malik

TECHNICAL SPECIFICATION FOR FUME HOOD

1. **Model & Usage:** Fume Hood for Regular Usage with Storage Compartment (removable Shelves).
2. **Dimensions:** 2'X2'X2'
3. **Design:** Structure: Aerodynamic, Floor Mounted.
4. **Airflow Type:** Low Constant Volume.
5. **Material of Construction of Superstructure:** Outer made of Mild Steel.
6. **Front Top Panel:** Easily operable hinged top panel for easy access to flow control valve and electrical lighting fixtures for maintenance.
7. **Corner Post:** Panel profiled corner post is placed on Left and Right Hand side of the fume hood.
8. **Construction (Interior):** Fire Retardant, Smooth Finish, Easily & Cleanable Panels.
9. **Active Kinetics Exhaust System:** Interstitial kinetics exhaust system (for light, normal & heavy fumes) with baffle to ensure rapid exhaust of fumes.
10. **Air foil:** Aerodynamic design, Horizontal fixed air foil mounted on the worktop made of SS 316.
11. **Worktop:** Chemical resistant splash & spillage proof dished Jet Black Granite Worktop (18 +/- mm thick).
12. **Sink, Water Tap with drain arrangement:** Worktop will have sink sealed with silicon sealant for drainage with water tap on left & right back side of worktop. Sink will have a trap for waste collection.
13. **Sash (Shutter):** Vertical rising sash counter-balanced with pulley and counter-weight system. Toughened Float Glass Sash (4mm thick or better). Smooth and light sash operation. Clear openable height = 750 mm.
14. **Wet & Dry Service Valves:** Color coded valves for fine control over utilities total 4 nos. Service valves with SS Braided hose with 6 mm internal dia, with stands up to 5kgf pressure (2 LHS + 2 RHS), 2 for Raw Water, 1 for Nitrogen, 1 for Vacuum.
15. **Maintenance Port:** Openable top panel for easy maintenance of tube light & Service panel for maintenance of utility valves and tubing.

16. **Internal Nozzles:** Brass powder coated fittings are staggered in the fume hood on this back wall to avoid the intermingling of the flexible hoses. Also the taps are tapered in shape to use with flexible tubing of size from 1/4" to 1/2" in dia to provide greater flexibility to the user.

17. **Lighting:** Fluorescent light (40 watt, 2 no's) with vapors-proof fitting for proper illumination, Intensity approx. 400 lux at worktop level.

18. **Electrical Utilities :** 4 no's electrical sockets North west made (230 V 6/16A, 50 Hz)., 4 Nos North West made MCBs with blower NO/NC Switch with built-in starter & light switch on front fascia cables & wires Fire Retardant Grade.

19. **Built-in Starter:** The electrical wiring will have built-in starter of "Telemecanique/L&T" made suitable to blower motor capacity.

20. **Cable Entering Port:** For easy of cables from fume hood to electrical sockets.

21. **Level Adjusting Screws:** To adjust the fume hood level by +/- 10 mm.

22. **Exhaust Port:** Unique exhaust port design ensures that the fumes will be exhausted smoothly without any turbulence at the exhaust port. Also it ensures low noise level.

23. **Noise Level:** Approx. < 70db at 1 meter from fume hood.

24. **Centrifugal Blower:** For Air Suction in Fume Hood: Silent high efficiency blower consisting of continuous rating motor and impeller. As per international safe velocity norms.

- Construction: SISW type.
- Air Suction Capacity Approx.: 750 CFM confirming to international face velocity norms and as per safe fume hood airflow pattern.
- Motor: Crompton/LHP/Other Reputed Make, HP Motor Single/Three Phase.

25. **Ducting:**

- Construction: flexible ductwork with weatherproof canopy. Total ducting with horizontal, vertical members, flanges, bends, bracketed supports and gooseneck exhaust stack.
- Length: Ductwork from fume hood to exhaust: stack point (approx. 3 meter).

26. **Warranty:** 2 years

27. **Attach Brochures and Users List**

TERMS & CONDITIONS TOWARDS SUBMISSION OF QUOTATION

- 1) **DELIVERY:** The rates quoted must be for free delivery/F.O.R. IIT Delhi after allowing the discount, if any.
- 2) **TERMS OF PAYMENT:** Normally payment will be made within 30 days after receipt of goods in sound condition through RTGS.
- 3) **TAXES & RATES:** The price quoted should be inclusive of all Taxes and quoted both in figures and words.
- 4) **INSTITUTE RIGHTS:** Institute reserves the rights of acceptance or rejection of any or all quotations. The discretion for increasing or decreasing the quantities is also lies with the Institute.
- 5) **VALIDITY OF QUOTATIONS:** Quotation will be valid for 3 months from the last date of receipt of quotation unless otherwise stated.
- 6) **CORRESPONDENCE:** No correspondence regarding acceptance/rejection of quotation (s) will be entertained.
- 7) **SAMPLES:** Sample where asked for, should invariably be made available and sent along with the quotations.

8) METHOD OF SUBMISSION OF QUOTATIONS

: Quotations should be sent in a sealed cover marked at the top “N.I.Q, REFERENCE NO.

_____AND DUE DATE” otherwise these will not be considered.

- 8) **DISCOUNT/REBATES:** Special discount/rebate wherever admissible keeping in view that the supplies are being made for Educational purpose in respect of Public Institution of National importance may please be indicated.
- 9) **PAN/TIN Number:** All the vendors should provide their PAN/TIN number without which, quotation will be rejected.
- 11) **REJECTION:** Quotation not conforming to the set procedure as above will rejected.