

बीरबल साहनी पुराविज्ञान संस्थान, लखनऊ  
BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, LUCKNOW

टेलीग्राम पेलियोबॉटनी

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बी सा पु सं /III/भंडार एवं क्रय/८-९।०

53, विश्व विद्यालय मार्ग

लखनऊ - 226007

Date: 21.10.2016

संयोजक वेबसाइट समिति,  
बी सा पु सं, लखनऊ

**Fume Hood (Specification attached)**  
**Attach Authorization or ISO Certificate alongwith quote**

**Subject:** -----

Dear Sirs,

This Institute intend to purchase item mentioned above. Sealed quotations are invited so as to reach this office on or before 5:00 P.M. on 03.11.2016 duly superscribed by "Fume Hood " .

While submitting quotation please note that:

1. The material may either of indigenous manufacturer or of foreign make, available from ready stock. Any offer to supply on forward Delivery Basis under suppliers own quota license will also be considered.
2. The price quoted should be F.O.R. Destination.
3. Your rates should include packing, insurance and forwarding charges.
4. The rates of Sales Tax should be clearly indicated wherever chargeable. The tendered should also indicate Central/Sales Tax Registration Number and date in this quotation.
5. Specific mention should be made whether the offer is for supplies available ex-stock. In case the officer is on Forward Delivery basis, firm delivery period must be indicated.
6. The cover should be sealed and superscribed "Quotation for "Fume Hood " must be written on envelope. The quotations not complying the procedure will be rejected.
7. Payments will be made by crossed cheque on The Indian Overseas Bank, Lucknow only after receipt and acceptance of supply and installation/ if required satisfactory.
8. The acceptance of the quotation will rest with the Director who does not bind himself to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotation received without assigning any reasons.
9. The quotations are liable to be cancelled if any of the above mentioned conditions are not complied with.



(Dr.R.S.Singh)  
Scientist 'G'

& Additional duties of Registrar

# Fume Chamber

## Specification

**Dimensions** - 1800mm × 940mm × 1200mm (L × D × H)

**Design Basis** - Comply to ASHRAE - 110 Standard  
CE or ISO certified

1. **Construction (Interior & Exterior)** -
2. The interior and Exterior area of the fume hood chamber will be Chemical & Heat Resistant, Smooth Finish, Easily Cleanable Panels Made out of durable combination of asbestos with FRP lining / FRP reinforced with BISPHENOL/TERVINYL to withstand Acid & Toxic fumes. There will be no exposed screw fixing in inner part of fume hood chamber. Sash door will be made up of heat resistant toughened Glass/Acrylic, fitted with effectively controlled counter balanced system, having FRP sliding channel
3. **Corner Post** - Triangular Profiled Corner post made of Highly chemical resistant polyurethane FRP, Grey color, Made of FRP. It will be placed on Left and Right Hand Side of the Fume hood and it will electrical receptacles.
4. **Worktop** - Chemical resistant splash & spillage proof dished 'Ceramic tile' worktop.
5. **Lighting** - Fluorescent light (40 watt, 2 nos.) with vapour-proof fitting for proper illumination. Intensity approx 400 lux at worktop level.
6. **Electrical Utilities** - One nos. electrical sockets Havells make (230 V, 6/16 A, 50 Hz), with blower NO/NC switch (with built in starter) & light switch on front fascia.
7. **Cable entering port**- For easy access of cables from fume hood to electrical sockets.
8. **Exhaust Port** - Unique exhaust port design ensures that the fumes will be exhausted smoothly without any turbulence at the exhaust port. Also it will ensures low noise level.
9. **Centrifuge Blower** - Chemical & heat resistant Poly Propylene Blower + FRP Housing with aerodynamically balanced impeller, with drain plug. 2000 CFM confirming to international face velocity norms and as per safe fume hood airflow pattern. 'Crompton make, 2 HP Motor single phase, direct drive, continuous rating.
10. **Powered by** - 2 HP 1440 RPM Crompton Motor.
11. **Ducting** - 150mm dia PVC with FRP lining pipe of Height 20 feet with suitable rain hood.
12. **Impeller** - Dynamically balanced FRP Impeller
13. **Exhaust Blower** - Centrifugal,
14. **Casing** - 6mm thick FRP Sheet
15. **Coupling** - Direct
16. **Balancing** - By suitable equipment upto 3000 RPM
17. **Base unit** - 3' height table made out of CRCA sheet with sliding door, open door and one number horizontal partition internally coated with epoxy paint.
18. **Electrical arrangements** - 2 Nos. of 3 pin 15 amp sockets with control switch an bush type starter and Two number 4' Tube light.
19. **Air Suction Capacity** - 750 -850 CFM confirming to international face velocity norms and as per safe fume hood airflow pattern.
20. **Noise Level** - < 70db at 1 meter from fume hood.