



**Govt. of Assam**  
**OFFICE OF THE PRINCIPAL**  
**JORHAT INSTITUTE OF SCIENCE & TECHNOLOGY**  
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No. JIST/Quotation/FH/2024-25/ 1746

Date-02/03/2024

**Invitation of quotation for Fume Hood**

Sealed Quotations are hereby invited by the undersigned for Supply of Fume Hood for Chemistry Laboratory of Jorhat institute of Science and Technology, Jorhat as per Annexure-I. The filled quotations along with all the required document must reach in the office of the undersigned on or before 12 noon, 15<sup>th</sup> May, 2024. The Envelope containing the quotation may be sealed and superscribed as under.

**“Quotation for supply of Fume Hood”**

**Terms and conditions**

- 1) The quotations received after this deadline or in unsealed condition shall not be entertained under any circumstances. This Institute will not be responsible for any postal delay. The offer submitted by Fax/Email shall not be considered, and no correspondence will be entertained on this matter.
- 2) Quotations must be on the letter head of the contractor/firm duly signed by the contractor/Proprietor/Partner/Director or their authorized representative. In case of signing of quotation by the authorized representative, the letter of authorization must be attached with the quotation.
- 3) Rates must be quoted in Indian rupees (taxes extra, if any, must be written separately)
- 4) No overwriting or striking off is permitted on the rate. If found, the quotation shall be summarily rejected.
- 5) The rates quoted must be valid for a minimum of 60 days from the date of opening of the quotation and silence of any tender on this issue shall be treated as agreed upon with this condition.
- 6) Becoming L1 will not be the sole criteria for awarding of contract order unless the rates are reasonable & justified.
- 7) The contractor/firm/agency may satisfy the following conditions and attach self-attested copy of supporting documents with the quotation:
  - a) Firm shall be registered with the Government of Assam / Central Government.
  - b) The firm shall have valid GST/Other taxes and IT PAN.
  - c) The firm should not be blacklisted by any Govt. Agency/Dept. The firm should submit a self declaration to this effect.
- 8) Delivery period -- within 30 days from issue of supply order.
- 9) Payment Terms: Payment will be only after satisfactorily delivery/commissioning of material.
- 10) Bidder must quote the product as per specification provided in annexure-I.

Principal

Jorhat Institute of Science and Technology,

Jorhat-10

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FUME HOOD SPECIFICATION GENERAL CHEMISTRY LABORATORY

General Specifications & Description

**1. External Dimensions**

1200 mm (W) × 1000mm(D) × 1600mm(H) (*without Base Cabinet*):

1200mm (W) × 700mm D × 800mmH (*Base cabinet*)

**2. Internal Work Volume:**

920mm(W) × 750mm(D) × 1150mm(H)

**3. Type of Design & Airflow:**

Aerodynamic, Progressive Bypass type (PBP), Floor mounted

**4. Construction: Exterior**

Galvanized Iron (GI) as per IS standard with rigid structure, corrosion & abrasion resistant powder coating.

**5. Construction: Interior**

Working chamber with Chemical & heat resistant & fire retardant with smooth finish.

**6. Suction system:** Active kinetics exhaust system (for light, normal & heavy fumes)

**7. Aero foil:** Aerodynamic Design, Horizontal fixed airfoil.

**8. Worktop & sink arrangement:** Chemical resistant splash & spillage proof 'Ceramic Worktop'. Worktop should have sink, water tap with drain arrangement

**9. Utility Service fittings:** Total 3 nos. service valves with Polyethylene plumbing and brass fittings for gas connections as per international colour coding.

**10. Sash (Shutter):** Counter-balanced vertical rising sash with nylon rope & pulley arrangement. Toughened Float Glass sash (5 mm thick). Smooth and light sash operation. Clear open able height = 700 mm.

**11. Lighting:** Fluorescent light (20 watt, 1 No.) with vapour-proof fitting for proper illumination.

**12. Electrical Utilities:** 2 nos. electrical sockets (230 V, 5/15 A, 50 Hz), MCBs with built-in starter & light switch on front fascia, one DP switch for entire fume hood single-phase supply. Cables & wires 'Fire Retardant' grade.

**13. Cable entering port:** For easy access of cables from fume hood to electrical sockets, port is provided.

**14. Level adjusting screws:** To adjust fume hood level by + 10 mm.

**15. Flow control valve:** To regulate exhaust airflow.

**16. Noise Level:** Less than 70db



**17. Centrifugal Blower:** Silent, high efficiency remote blower, consisting of continuous rating motor and chemical resistant impeller. Motor should be reputed make. There will be single outlet for two hume hoods and another one outlet for the rest of other two hume hoods. Accordingly blower/impeller should be of high efficiency 3 HP of each respectively (as per IS 325). There should not be any contamination between the connected hoods.

**18. Ducting:** Chemical resistant rigid & flexible ductwork from Fume hood to exhaust stack point with weatherproof canopy. The outlet of the exhaust (ducting) should be extended beyond the first floor roofing for release of exhausted air (~750 sq. ft. of ducting is required).

**19. Installation:** Free

**20. Warranty:** 12 months warranty against all manufacturing defects.

