

DEPARTMENT OF METALLURGY AND MATERIALS ENGINEERING

Indian Institute of Engineering Science and Technology, Shibpur
Howrah-711 103

Enquiry No. 02/MET/IEST/LEA/2021-22

02/12/2021

To,


All the Enlisted Suppliers/Dealers/Manufacturers

Sealed quotations are invited for supply of the following Equipment (Fume Hood) for the Dept. of Metallurgy and Materials Engineering. The sealed quotations should be addressed to the Head of the Department indicating enquiry no. with date on the top of the sealed envelope. The sealed quotations should be submitted at the office of the department on any of the working day up to 15/12/2021 till 5.00 P.M.

Terms and conditions:

- i. All rates quoted should include all taxes, levies & duties. **Request for inclusion of any tax/levy at later stage will not be entertained.**
- ii. Transportation, Packing, Forwarding, installation, training and Insurance Charges if any to be charged should be specifically indicated.
- iii. Delivery place : IEST, Shibpur
- iv. GST applicable will be 5% for research facility of the Institute. The certificate will be provided by the Institute with the Purchase Order
- v. The Institute reserves the right to accept or reject all or any of the quotation without assigning any reason whatsoever. The decision of the Institute shall be final in case of any dispute.
- vi. The delivery of items must be completed by 2 weeks from the date of issue of Purchase Order.
- vii. Bills in Triplicate should be presented for payment within 07 days of supply/completion of Items / work.
- viii. The Order no. is to be noted on both challan & Bill.
- ix. All bills are to be accompanied with the order copies and challans.
- x. Payment will be made within 90 days from Submission of proper bills; challans etc. by A/c payee cheque or NEFT. **No Cash payment will be made under any circumstances. No advance payment can be made All payments are subjected to statutory deductions as and when applicable.**

- xi. SELECTION WILL BE MADE PURELY ON ESSENTIAL TECHNICAL DOCUMENTS. The IESTS authority will evaluate and compare the quotations (the gross amount i.e. inclusive of all taxes, other charges etc.) determined to be substantially responsive i.e. which- (a) meet the qualification criteria specified in the tender, (b) Are properly signed, and (C) Conform to the terms and conditions, specifications without deviations.
- xii. Only one best quality item (according to our specification) should be quoted against each item. On no account should different qualities e.g. A, B, & C of items be quoted. Those items that have been quoted as per different qualities (In contravention to the specifications) will not be considered at all and will be summarily rejected.
- xiii. Based on our specifications, Brand must be clearly mentioned in the quotation, without which quotation will not be considered.
- xiv. The bidder must submit photo copy of valid Trade License, GST certificate, Professional tax certificate PAN card and Cancel Cheque along with the quotation.


02/12/2021
(Debdulal Das)
Head



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Head
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Copy forwarded for information to:

Institute Website, IEST, Shibpur, Howrah-711103

For details the vendors may contact Dr. Kaushik Das (Mob. No. 9438169526) during working hours.

Technical Specifications of Fume Hood

Specification	Specification Name	Values	Allowed Values
DIMENSIONS, FEATURES	Size of sink (mm)	-	*
	Power rating	-	*
	Drawing No.	-	*
	Product Code available on web	No	No
	Safety Device Trip (Nos)	-	*
	Material of Base Cabinet	None	*
	Working Platform Material	Glass	Glass, Granite
	Double Wall Construction	Yes	*
	Ducting Material	Aluminium, PVC	Aluminium, PVC
	Details of Electrical outlets	-	*
	Air flow (Cubic m/hr)	500	500 or more
	Width of base cabinet (mm)	-	*
	Material of front shutter	Perspex sheet (6mm thick)	Perspex sheet (6mm thick)
	Overall length of fume hood (mm)	1524	1524
	Base cabinets	Without	Without
	Ducting for Hood	With	With
	Efficiency & Noise level of Blower (% , dB)	NA, 40 -45 dB	*
	Thickness of wall (mm)	19	19
	Operating temperature of fume hood (degree C)	20 - 100	20 - 400

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Material of Fumehood	<p>(a) Wooden experimental table (5'x 3'x 3') structure and 6mm waterproof board for three sides.</p> <p>(b) Front should be made of 19mm water proof board with laminated finish, front-side door with upper sliding system.</p> <p>(c) Top of the table is wooden framed with glass covered for three sides, back portion covered with 6mm laminated ply (Laminated all sides).</p> <p>(d) The top and back portion of the table should be covered with 1.5 mm chemical corrosion protective vinyl sheet, additional 6mm transparent glass must be supplied which will cover the top of the table.</p> <p>(e) Thickness of the glass should be 6mm, front side of the box having a sliding door made of Perspex sheet (6mm thick upper side sliding).</p>	<p>(a) Wooden experimental table (5'x 3'x 3') structure and 6mm waterproof board for three sides.</p> <p>(b) Front should be made of 19mm water proof board with laminated finish, front-side door with upper sliding system.</p> <p>(c) Top of the table is wooden framed with glass covered for three sides, back portion covered with 6mm laminated ply (Laminated all sides).</p> <p>(d) The top and back portion of the table should be covered with 1.5 mm chemical corrosion protective vinyl sheet, additional 6mm transparent glass must be supplied which will cover the top of the table.</p> <p>(e) Thickness of the glass should be 6mm, front side of the box having a sliding door made of Perspex sheet (6mm thick upper side sliding).</p>
No. of Drawers in the Base Storage Unit (Nos)	0	0
Fume hood Installation Kit and Accessories	Without	With, Without
Height of the Base Cabinet (mm)	-	*
Type of Filter	HEPA	*
Type of Fume hood	Laboratory	Laboratory
Length of Base Cabinet [mm]	NA	*
Fire Resistant	No	*

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Utility Pipelines for Nitrogen, Compressed Air & Water	No	*
Face Velocity	NA	*
Type of Fumes suitable for	Acids, Bases, Polymers	Acids, Bases, Polymers
Overall Width of Fume hood (mm)	742	740 - 742
Design of Base Cabinet	No	No
Wattage of Blower	-	*
Material of sink	-	*
Overall Height of Fumehood (mm)	800	800-2000
Type of Blower	-	*
Design details of baffles	-	*
Design details of Electrical Services	LED (yellow) lighting arrangement (two lights min 9 watts) and two electrical socket connections to be provided on both side total four plug point.	LED (yellow) lighting arrangement (two lights min 9 watts) and two electrical socket connections to be provided on both side total four plug point.
No. of Electrical Socket and Switch (Nos)	2	2 or more
Material of the Blower	-	*
Working Platform Thickness (mm)	6 mm (glass) + 1.5 mm (vinyl sheet)	6 mm (glass) + 1.5 mm (vinyl sheet)
Provision for Electrical Outlets	Yes	*
Drawing available on Web	No	*

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	Features of various utilities	<p>(a) Two fans: One 9" fresh air exhaust fan, and another 12" exhaust fan having metal body with 8" diameter aluminium/PVC pipe for gas outlet to be on centre top.</p> <p>(b) The 12" fan should be installed in the panelling at a suitable distance.</p> <p>(c) Pipeline length as required for connecting with main frame exhaust.</p> <p>(d) All exhaust fans should be covered with appropriate box/enclosure</p> <p>(e) The exhaust fans should preferably have variable speed control.</p>	<p>(a) Two fans: One 9" fresh air exhaust fan, and another 12" exhaust fan having metal body with 8" diameter aluminium/PVC pipe for gas outlet to be on centre top.</p> <p>(b) The 12" fan should be installed in the panelling at a suitable distance.</p> <p>(c) Pipeline length as required for connecting with main frame exhaust.</p> <p>(d) All exhaust fans should be covered with appropriate box/enclosure</p> <p>(e) The exhaust fans should preferably have variable speed control.</p>
CONFIGURATION	Fume hood Baffles	Without	*
	Front shutter Fume hood	With	With
	Material of insulation	-	*
	Type of Base cabinets	-	*
	Non-Corrosive treatment of inside compartment	Yes	*
	Availability of Sink	Without	Without
	No. of Shutters (Nos)	1	1
	No. of Shelves in Base Storage	-	*
	Materials of Baffles	-	*

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