



DELHI POLLUTION CONTROL COMMITTEE

Department of Environment, Govt. of NCT of Delhi

dpcc

4th - 6th Floor, ISBT Building Kashmere Gate, Delhi - 110 006.

F.No.DPCC/Lab (W)/2015/1716-17

Date:- 01/02/16

QUOTATION NOTICE

A. Quotations are invited for purchase of "FUMING CHAMBER" in DPCC Water Laboratory as per specification enclosed in Annexure-A

B. DETAILS OF TENDER

- a) Last date of submitting of Quotations - 15.02.2016 at 01.00 PM.
- b) Opening of Technical / Financial Quotation :- 15.02.2016 at 04.00 PM

C. ELIGIBILITY CRITERIA

Following essential documents shall be attached with technical bids & submit physically failing which tender shall be rejected.

1. The vendor must submit Earnest Money Deposit (EMD) of Rs. 5,000/- (Five Thousand only) in the form of Demand Draft drawn in favour of **Delhi Pollution Control Committee** and payable at **Delhi** alongwith his quotations.
2. Self attested copy of valid registration certificate of VAT / TIN Number issued by Govt. of Delhi.
3. Self attested copy of PAN Card.
4. Comparative Statement Chart regarding specifications of Fuming Chamber.

D. TWO BID SYSTEMS TENDER

- a) Technical Tender / Bid
- b) Financial Tender / Bid

1. Sealed Technical Bids comprising of Earnest Money along with all documents & certificates listed under "Eligibility Criteria" should reach in office of Delhi Pollution Control Committee, 4th Floor, ISBT Bldg., Kashmere Gate, Delhi-110006 latest by 01.00 PM on 15.02.2016 and be dropped in quotation box placed at Enquiry Counter, failing which tender shall be rejected. Only sealed Technical bids superscribing "Technical quotation for Fuming Chamber" will be accepted.

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E. GENERAL TERMS AND CONDITIONS

1. The prices quoted should be inclusive of all taxes, statutory levies, insurance and installation charges etc.
2. The specifications are clearly mentioned as above and the bidder are requested to submit Bid only if their offer strictly comply to above specifications. Please note that no deviation in the required specifications will be permitted. The bidding for instruments having different specification will be on bidder's risk as DPCC will not entertain such bids
3. The quotations shall be submitted only in Indian rupees. The Indian agent will be legally responsible to ensure the delivery of the goods as per specifications and along with all requisite documents.
4. The approved agency shall ensure that Delivery of goods is made from Delhi and against a sale invoice issued from Delhi. The dealer supplying goods should be registered with the Delhi VAT Department and carry a valid tax identification number issued by it.
5. One year onsite comprehensive warranty covering all parts & labours. This period will start from the date of successful installation / commissioning of the fuming chamber.
6. The technical bids will be opened individually, and examined for short listing the vendors, and the commercial / financial bids of only those vendors who have qualified technically will be opened and compared.
7. The EMD shall be forfeited if any stage, the tender deviates from the terms and conditions of such contract agreement or his performance is found to be unsatisfactory without any notice.
8. DPCC at its discretion may extend the last date of submission of bids and opening of bids. The final authority for acceptance of bids will rest with Competent Authority, DPCC who does not bind himself to accept the lowest bids and is vested with the authority to reject and or all the bids received without assigning any reason.
9. The instruments / equipments have to be supplied in standard packaging only to Dr. Nandita Moitra, Sr. Scientist (Water), at Delhi Pollution Control Committee at 5th Floor, ISBT Bldg., Kashmere Gate, Delhi-110006.
10. Instruments / equipments bearing ISI mark, CE certification & better specifications / features will be given preference and priority.
11. The instruments / equipments may increase or decrease as per discretion of competent authority, DPCC.
12. The vendor must deliver the instrument within 30 days from the date of placement of orders. If the vendor fails to deliver any or all the equipment for which tenders are invited, the EMD amount may be forfeited.
13. If the equipments / instruments supplied are found defective / unsatisfactory condition / short supply / other than specifications in the purchase orders, the same will have to be replaced at the supplier's risk & cost. No freight & other charges will be paid by DPCC.
14. Any dispute arising out of this purchase shall be under the jurisdiction of the courts of Delhi.
15. The Competent Authority, DPCC reserves the right to reject any or all the tenders without assigning any reason at any stage.

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F. ARBITRATION

Any dispute arising out of this purchase shall be referred for settlement through arbitration proceedings. Arbitration procedure will be as per Indian Arbitration and Conciliation Act, 1996. The arbitrator will be appointed by the Lt. Governor, Delhi.

G. FORCE MAJEURE

- (a) Any delay or failure in the performance by either party hereunder shall be excused if and to the extent caused by the occurrence of a Force Majeure. For purposes of this agreement, Force majeure shall mean a cause or event that is not reasonably foreseeable or otherwise caused by or under the control of the party claiming Force Majeure, including acts of God, fires, floods, explosions, riots, wars, hurricane, sabotage terrorism, vandalism, accident, restraint of government, governmental acts, injunctions, labor strikes, other than those of seller or its supplier, that prevent seller from furnishing the materials or equipment, and other like events that are beyond the reasonable anticipation and control of the party affected thereby, despite such party's reasonable efforts to prevent, avoid, delay, or mitigate the effect of such acts, events or occurrences, and which events or the effects thereof are not attributable to a party's failure to perform its obligations under this agreement.
- (b) If a force majeure situation arises, the supplier shall promptly notify the DPCC in writing of such conditions and the cause thereof. Unless otherwise directed by the DPCC in writing, the contract as far as reasonably practical, shall seek all reasonable alternatives means for performance not prevented by the force majeure event. Any of the parties may terminate this contract, by giving a written notice of minimum thirty days to the other party if as a result of force majeure, the other party being unable to perform its obligation as per this contract for a period of more than sixty days.

H. PAYMENT TERMS

- 1. 100 % payment will be released after receipt of the instrument / equipment in good & satisfactory condition and on installation / commissioning the instrument / equipment along with the related papers (to be certified by the concerned officer i.e. Sr. Scientist (Water) DPCC and on submission of bills in duplicate).
- 2. No advance payment shall be allowed in any case.
- 3. The payment shall be issued / released in the name of Indian agent only.

This issue with the approval of competent authority



ADMN. OFFICER

Copy to:-

- ✓ 1. SEE (IT):- with request to upload on DPCC website.
- 2. Enquiry Counter, DPCC.

Annexure "A"

Specifications of FUMING CHAMBER for DPCC

S.No.	Particulars
	Fume Hoods
	Supplying and commissioning of Fume Hood as specified below with all necessary water inlet, waste outlet, power sockets, gas connections, compressed air connections, etc., complete.
	Overall Dimensions
	1500 mm (W) X 900 mm (D) X 2400 mm (H)
	Inside Fume hood working volume
	1260 mm (W) X 683 mm (D) X 1182 mm (H)
	Bed Size
	1260 mm (W) X 683 mm (D)
	Worktop height from finished floor level
	900 mm
	Design Structure
	Aerodynamic, floor mounted
	Air Flow Type
	Automatic Bypass Type
	Construction (Exterior)
	Epoxy Powder coated, GP Chromate zero sprangle CRCA Sheets, with colours (as directed by the consultant/ Engineer Incharge) 18 and 22 Gauge Electro-Galvanized steel with rigid structure.
	Construction (Interior)
	Phenol based high-pressure compact laminate (6mm thick)
	Baffle Arrangement
	3-point suction system (for light, normal and heavy fumes) with baffle constructed of phenolic resin laminate delivering efficient containment by ensuring smooth uniform airflow throughout the main chamber of the fume hood and immediate exhaust of fumes.
	Air Foil
	Corrosion resistant stainless steel, providing spill retention and safe ventilation of fumes generated, curved front edge to facilitate ergonomic working position.
	Worktop
	Chemical resistant splash and spillage proof 'Jet Black Granite' worktop.
	Sink, Water tap with drain arrangement
	Sash (Shutter)
	Vertical rising counter- balanced 'Toughened Float Glass' (4mm thick) fitted in the powder coated Aluminum extrusion from Hettich Germany. Smooth and light sash operation.

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	Clear Sash Opening Height
	655 mm
	Lighting
	CFL tube light (36 watt, 1 No.) with metal enclosure for better illumination with less power consumption. The lighting needs to be isolated from the air stream to increase air flow uniformity.
	Electrical Utilities
	Your nos. electrical sockets & switches, 'North West' make (230 V, 5/16 A, 50 Hz), Switches have LED to indicate 'ON' position. A soft touch button panel with main switch, switch for blower & tube light & spare switch is provided. LED indicators to show the ON & OFF positions of switches are provided. The control panel shall have audible alarms to indicate low/ unsafe airflow velocities. The panel shall have a time display with a stopwatch timer and should also be able to indicate ambient temperature.
	Apparatus storage base unit
	The base unit shall be ready to receive the fume hood above it and it should have the following characteristics:
	Complete rigid steel framework to support fume hood.
	Epoxy Powder coated attractive combination.
	There shall be two storage units at the base each having a single shelf in between.
	Shutters are Double skin with CED coated self-closing hinges.
	Over all Dimensions of storage unit
	695 mm (W) X 570 mm (D) X 643 mm (H)
	Air Flow Monitor
	TEL, UK make model AFA 500 (Analog) model 1000/2 {Digital}.
	Maximum Air Exhaust Air Volume
	1444 cmh (850 cfm) for minimum face velocity of 0.5 m/s or 100 fpm at full open sash position.
	Minimum Air Exhaust Air Volume
	585 cmh (344 cfm) for minimum face velocity of 0.5 m/s or 100 fpm at half open sash position.
	Light Intensity at Work Surface
	780 Lux.
	General notes
	The Fume hood shall have an apparatus holding grid made up of SS.304 (Dia 12 mm) pipe. It will cover the entire length of the Fume Hood and is placed at the rear side.
	The base of the Fume Hood shall be provided with level adjusting screws that permit leveling upto 10±mm.
	A damper shall be provided at the outlet of the hood to regulate air flow.
	Centrifugal Blower
	Silent high efficiency remote blower, consisting of continuous rating motor and chemical resistant impeller. The blower should face velocity of 80 to 120 Feet/ minute (FPM) as per ANSI/ AIHA Z9.5 at the safe working height. It should

	satisfy all international safe velocity norms.
	Construction:
	Casing
	PP + FRP
	Impeller
	FRP- Vinyl Ester
	Frame
	MS (FRP resin coated)
	The unit has to have a drain plug
	Air suction Capacity
	3400 CFM confirming to international face velocity norms and as per fume hood airflow pattern.
	Motor
	3HP/ 4 Pole Rating Motor/ EEF2 (3 Phase AC Supply), direct drive, continuous rating, TEFC Sq. Cage Induction Motor with IP-55 Protection, 'F' class insulation , 415 Volts, 50 Hz.
	VFD
	3HP VRD. Operating voltage: 3PH, 380 to 480V, Operating temp: 40-45 Deg C, Overload: 110%, IP 42 panel to protect the drive from basic environmental hazards as integrated part of Panel design, RFI filters, Harmonic filters as built in, complete with graphical LCP display.
	Cabling and earthing
	Cabling from Motor of fan on roof, to VFD in Lab using 3c Acrmoured cable 4 sqmm Copper c/w Gi Earthing 2 runs.
	Ducting
	Rigid Ducting of PP+ FRP, Flexible Ducting, with flanges, Bends, dampers Transitions, Clamps upto Blower. Flexible joint is to be provided in ducting in order to avoid Transmitting of Blower Vibrations to the hood. A Weather Proof rain cowl is to provided at the outlet of blower.
	18 inch single header
	12 inch option for header duct
	8 inch individual hood to main line connection
	DAMPERS IN CONNECT LINE TO MAIN DUCT
	Transformation piece from main line to Fan suction
	Fan discharge duct with 45 degree cowl and mesh to eliminate rain water and rodent ingress
	Inlet damper on Fan
	Installation
	Installation will have to be done by the vendor, with ductwork design, fitting, fixing of blower, connecting to the ventilation duct, commissioning and testing of the same to the satisfaction of the Lab-In-Charge of DPCC.
	An onsite validation needs to be done to ensure adequate performance for all working parameters as per applicable international norms.
NOTE:	The above specification shall be considered to be a guidance and the fume hoods, in addition, shall confirm to all relevant and applicable IS,

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	SEFA BS, DIN, ASTM, ISO, & ASHRAE 110 STANDARDS.
NOTE:	It is mandatory that the vendor submit technical working drawings with all relevant details and catalogues, if any, for every single item mentioned above at the time of submission of tender. Any tender without such details will be rejected outright.
	Grand total for Fume Hoods (A)

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