



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन एवं विकास मंत्रालय, भारत सरकार द्वारा स्थापित
सैक्टर 81, नॉलेज सिटी, पी. ओ. मनोली, एस. ए. एस. नगर, मोहाली, पंजाब –140306
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI
Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab
PAN NO. - AAAAI1781K TAN NO. PTLI10692D

IISER Mohali

• Phone : +91-172-2240086,2240121 • Fax : +91-172-2240124, 2240266 • <http://www.iisermohali.ac.in> • Email: stores@iisermohali.ac.in

E-mail/CPPP/website

IISERM(603)15/16 Pur

21st October 2015

NOTICE INVITING QUOTATION

Sealed Quotations in **TWO BID SYSTEM** are invited on behalf of The Director IISER Mohali for following items along with EMD money by DD /Banker Cheque/ FDR/ Bank guarantee for Rs 10000/- and tender fee of Rs 500/- (separately non re-fundable) in favour of the Registrar, IISER Mohali, payable at Mohali/Chandigarh so as to reach us latest by **12th November 2015** before 1pm and will be opened on the same day at 4pm. in the presence of tenderers, if any :-

Sr.	Description	Qty
01	Hot air oven dryer+ vacuum pump + vacuum chambers As per the attached specification Box shaped chamber rugged bench top unit, usually with a hinged access door for high vacuum degassing of liquid samples. Vacuum pump for vacuum chamber Dryer cum Hot air oven The oven should be designed as rectangular device of 110 (10) liters capacity. The ambient temperature should be in the range of 5 to 250°C. It should be designed for sterilization, hot air drying and heating purposes.	1+1+1

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(Mukesh Kumar)
Assistant Registrar (S&P)

Technical specification for Vacuum Pump cum Degassing Chamber & Dry Hot Air Oven.

Vacuum chamber

1. Box shaped chamber rugged bench top unit, usually with a hinged access door for high vacuum degassing of liquid samples.
2. The hinged door should provide leak proof degassing; therefore it should have a seal. The door should have thick seal to withstand repeated closings. Two draw latches close the front hinged door
3. The box should be a cube of interior standard dimensions of 12" high x 12" deep x 12" wide, the large base plate of the box should be welded with side walls or service walls.
4. Chambers should be suitable for use under high vacuum (less than 10^{-3} torr & greater than 10^{-8} torr).
5. Chamber walls should be made of double wall, outside with power coated, corrosive resistant steel/iron. Inside should be made of steel for easy cleaning and wiping.
6. Chamber wall material should be resistant from acid and base fumes. Vacuum connection should be located on lower rear side. Vacuum Gauge with a dial registering 0 to 30" of Hg and 0 to -100 kPa. In addition provide a vacuum regulator on top.
7. Chamber should be fitted with a pressure gauge on the top to measure the vacuum inside the chambers and a separate leak proof pressure release knob. In addition it should provide an outlet to draw the air to create vacuum. Which can be fitted easily to 8-10mm plastic pipes.
8. Suitable durable plastic pipe at least 2 meters should be provided for full functionality of the instrument.

Vacuum pump for vacuum chamber

1. The instrument should be designed in accordance with the EN61010-1:2001 electrical safety standard.
2. The instrument should be resistant to water vapour, acid fumes, and gel staining solution vapours. Two catchpots capture condensate should be attached to the pump, one at the pump inlet and other at the outlet. Catchpot should be held in place by a single clamp for quick and easy removal and cleaning. The pump should be robust, easy to use, and requires minimal maintenance.
3. Ultimate (total) pressure (absolute) should be 7 mbar/ 5 torr
4. Max. pumping speed should be 60 (± 10) Hz 2.3 (± 0.2) m³/h, Motor power should be 200 (± 20) watt, Max. permitted outlet pressure should be 1.3 bar (± 0.2).
5. Operating temperature should be 10–45 (± 5) °C, humidity should be 30-80% (± 5).
6. A-weighted emission sound pressure level should be 45 dB(A), uncertainty KpA, 3 dB(A).
7. Inlet/outlet port hose nozzle should fit 10 mm tube size; the rated motor should run in the range of 50-60 Hz at the speed of 1500-1800 rpm.
8. The pumps should have appropriate provision for plugging in Indian supply line.

Dryer cum Hot air oven

1. The oven should be designed as rectangular device of 110 (10) liters capacity.
2. The ambient temperature should be in the range of 5 to 250°C. It should be designed for sterilization, hot air drying and heating purposes.
3. The temperature should be controlled by microprocessor. Easy to use display for setting temperature and time.
4. The system should offer temperature uniformity and high temperature stability by high-grade insulation.
5. The inner walls should be made of stainless steel, the outer walls should be made of power coated steel, and in between there should be thermal insulation for heat loss protection and for high temperature uniformity.
6. The temperature uniformity should be achieved either by natural air convection or force ventilation.
7. Safety thermostat should be present. The door of the chamber should be designed such that there should be minimum heat loss from the chamber while it is on.
8. The vendor should provide the warranty on all quoted items for three years.

Except the vacuum chamber, the vendor should provide the technical information for vacuum pump and Hot air oven on their website to corroborate the specification claimed in their original brochure. The vendor should provide copies of two purchase orders where the product was installed in govt. institutes in last 3 years.

INSTRUCTIONS

1. The Quotation should be addressed to the Assistant Registrar (S&P), IISER Mohali invariably giving on the envelop Reference number with due date and time of submission of quotation.
2. One time importers from China with custom made specifications are highly discouraged.
3. The quantity mentioned in this inquiry is and shall be deemed to be only approximate and will not in any manner be binding on the Institute.
4. The rates offered should be FOR Chandigarh/Mohali in case of firms situated outside Chandigarh/Mohali, and free delivery at the Institute premises in case of local firms. Supplier outside India please mentions the Ex-works/FOB/FCA/CIF/CIP price clearly.
5. In case of Ex-godown terms the amount of packaging forwarding freight etc should clearly be indicated by percentage or lump sum amount. Institute has policy not to make any advance payments towards any purchase, Letter of credit can be opened if required.
6. THE INSTITUTE IS EXEMPTED FROM EXCISE AND CUSTOM DUTY.
7. SALES TAX :- This Institute is not exempted from the payment of Sales Tax/Service Tax/VAT. The current rate (i.e. percentage of Sales Tax should be clearly indicated included or excluded) wherever chargeable.
8. The delivery period should be specifically stated. Earlier delivery will be preferred
9. The firms are requested to give detailed description and specifications together with the detailed drawings, printed leaflets and literature of the article quoted. The name of the manufactures and country of manufacture should also invariably be stated. In the absence of these particulars, the quotation is liable for rejection.
10. Validity of offer: 90 days. Firm should replace all manufacturing defect parts/ whole item under warranty period without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance guarantee for 10 % of the value of supply order as per norms may be sought from firms.
11. Late or delayed quotation will not be accepted.
12. The right to reject all or any of the quotation and to split up the requirements or relax any or all the above conditions without assigning any reason is reserved. For any corrigendum and addendum please regularly visit our website.