



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND
RESEARCH THIRUVANANTHAPURAM (IISERTVM)
(Govt. of India, Ministry of H.R.D)**

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[Address List]

Date: 15th June 2015

INVITATION TO TENDER (IND)

**No: IISER/PUR/5836/15
Due Date: 30th June 2015 (4PM)
Date of Opening: 01st July 2015 [3PM]**

Dear Sirs,

SUB: SUPPLY OF CRITICAL POINT DRYER.

We invite Sealed **Two Part Tenders** for the following items:

Sl #:	Item/ Description	Qty
1	Critical Point dryer Specifications as per Annexure I	1

Please quote your lowest rate and shortest delivery period as per the following terms:

EMD	:	Rs. 44,000/- in the form of DD or B.G. to be submitted along with the quote. Quote received without EMD will be summarily rejected.
Payment	:	Within 30 days after supply and installation/Net 30 days /LC. No advance payment will be made by IISERTVM.
Delivery	:	To be delivered at our stores (Free delivery). If import, mention Ex-works/FCA/CIP terms with clear breakup charges.
Taxes & Duties	:	Indicate taxes and duties. We are exempted for customs duty under 51/96 notification and Excise duty under 10/97 notifications.
Warranty	:	For a minimum period of one year from the date of supply and installation.
Discount	:	Indicate, if any.
Delivery Schedule	:	Required Immediately. Indicate your schedule
Validity of quote	:	60 days

Your offer in sealed cover **SUPERSCRIBING TENDER NUMBER AND DUE DATE** shall reach us on or before the due date and time. Please follow "Instruction to Tenderers" attached.

TWO - PART TENDER

PART I - TECHNICAL BID:

Consisting of all Technical details alongwith commercial terms and conditions. DD towards, Bid Security [EMD] shall be sent alongwith Technical bids, Clientele list and details of TWO major installations in India.

PART II - PRICE BID:

Showing item-wise prices for the items mentioned in the Technical Bid.

The technical bid and the Price bid should be in separate sealed and superscribed covers. Both these covers are to be put in a sealed bigger cover superscribing Tender No and due date. Technical bids will be opened first and after evaluation, price bids of only the shortlisted bidders will be opened.

Thanking You,

Yours Faithfully

OFFICE COPY


**Deputy Registrar
[Purchase & Stores]** 16/6

**P.S. CATALOGUE/LEAFLET FEATURING ALL TECHNICAL SPECS/INFORMATION OF THE PRODUCT
QUOTED SHALL ACCOMPANY THE OFFER.**

Critical Point Dryer

Technical Specification for Critical Point Dryer

Critical point drying equipment for drying powders and gels, should operate based on the critical point drying principles/technique.

The critical point dryer should have following features

- 1) Should use either liquid carbon dioxide (or gaseous carbon dioxide which should be liquefied in the equipment just before the operation) with appropriate length of hose (~3 M) for CO₂.
- 2) Should be with full automation for fully reproducible process, with minimal user interaction time, with bright LCD touchscreen control which enables the user to program, save specific recipes for different sample types.
- 3) Should operate with flexible quantities (mg to g) of samples of various particle sizes (microns to nm).
- 4) Sample chamber dimensions should be in the range between 1.25" to 2.50".
- 5) Chamber material should be suitable for handling samples with all internal surfaces inert to CO₂, water, acetone and alcohols.
- 6) Very efficient adiabatic chamber cooling system using CO₂ should be provided.
- 7) External and internal filters for trace oil/water/particulates down to 0.5 micron or less for delivering clean CO₂.
- 8) Good view port with appropriate chamber illumination for chamber/process status inspection and process flow observation.
- 9) Vernier handles with micro metering valves and slow fill control capability for processing delicate samples with non-mechanical purge stirring eliminating moving parts.
- 10) Should have at least three or more tunable heating and cooling rates.
- 11) Systems with good cooling and heating capacity should be automatically controlled via sensors processor control with constant temperature display.
- 12) Should contain stringent safety aspects and should be with software controlled temperature and pressure cut off functions.
- 13) Process chamber and other internal components should be designed for operating pressure over 1500 psi or more. Pressure gauges with indicators should be provided with range 0 to 2000 psi (or higher).
- 14) Static pressure control module pre-set to ensure automatic safe pressure stability should be included. Safety features for high pressure operation should be built-in with pressure relief valve, internal rupture disk, and back up heater safety cut off, min 3 X or more over pressure safety margin.
- 15) Temperature gauge with indicators should be provided with range -30°C (or lower) to 60° C (or higher).
- 16) Should have facility to separate waste alcohol, acetone and CO₂, to dissipate static discharge and eliminate purge exhaust noise. Waste separator and collector should be attached to the system. Waste separator capacity should be easily detectable.
- 17) Electrical power: System should work on 230 V/50 Hz. Provision for built-in safety interlocks should be ensured.
- 18) Should have particle holders with ultrafine mesh pores capable of retaining particles from 2 µm or lower.
- 19) Supplier should offer various sample holders and standard spare parts for 2 years of unhindered operation as optional.

: 2 :

- 20) Along with all the technical details provide a tabular column indicating whether the model of the equipment, parts and spares to be supplied by you meet the above mentioned specifications by indicating 'Yes' or 'No'. If 'yes' support the claim by providing original brochures (Important) for all the parts.
- 21) After Sales support: Free lifetime technical support consultations by technical experts related to equipment should be provided.
- 22) Warranty period: must start from the date of installation, for minimum of 2 years or higher for all parts and labour.
- 23) Installation, training and commissioning has to be carried out by supplier at our laboratory.


Deputy Registrar
[Purchase & Stores]

IISER-TVM
INSTRUCTION TO TENDERERS [IMPORTS]:

1. **PRICE:** The price quoted shall be firm. The terms of FOB/EXW/FCA/CIF/CIP etc shall be clearly mentioned.
2. **AGENT & AGENCY COMMISSION:** In case Tenderer is represented by any agent in India, their name and address shall be furnished. The amount of commission included in the price shall be clearly shown in the offer; which will be paid directly to the Indian Agents by purchaser in equivalent Indian Rupees. In case Indian agents existing and their agency commission is not shown in the Tender, reasons for the same shall be clearly mentioned in Tender. Details of Indian agent's statutory registration shall be stated. If Agency Commission is paid by Principals in foreign currency, the reasons for the same and exemption from Enforcement Directorate in India shall also be provided.
3. **LEAFLET/CATALOGUE:** Tenderer should furnish all necessary leaflet/catalogue etc., of the stores offered by him to enable the Purchaser to evaluate his offer correctly.
4. **MODE OF DESPATCH:** Tenderer shall indicate the mode of dispatch (*i.e.*, Sea/Air-freight/Parcel Post, etc.) depending upon the normal mode of dispatch adopted by him for the type of stores offered for consideration of the Purchaser.
5. **COUNTRY OF ORIGIN:** Tenderer shall indicate in his offer the country of origin of goods offered and the name and address of the manufacture.
6. **INSURANCE:** If insurance of the goods is felt necessary, the same shall be advised by the Tenderer in the offer.
7. **DELIVERY/SHIPMENT:** The time for and date of delivery quoted shall be reasonable/realistic and shall strictly be adhered to in case of placing order on the Tenderer.
8. **MODE AND TERMS OF PAYMENT:** Payment in full (excluding the amount of Agency Commission included in the price payable directly by the Purchaser to the Indian Agents in Indian Rupees) will be made immediately on presentation of the prescribed documents against SIGHT DRAFT or LETTER OF CREDIT or WIRE TRANSFER against shipping documents. **OURS BEING A GOVT OF INDIA EDUCATIONAL INSTITUTE WE ARE UNABLE TO MAKE ANY ADVANCE PAYMENT**
9. **WARRANTY:** Period of warranty and conditions shall be clearly mentioned in the Tender.
10. **GENERAL:** The Tenderer shall also be complied with the following:
 - a. Mention your Banker's name and address.
 - b. Show approximate net and gross weight and dimensions of packages/cases.
 - c. Furnish list of recommended spares for satisfactory operation for a minimum period of one year if the quote is for Plant & Machinery, Equipments etc.
 - d. Details of any technical service, if required for erection assembly, commissioning and demonstration.
 - e. Conform that the prices quoted are inclusive of all taxes, levies, duties arising in the tenderer's country.
 - f. The offer is valid for a minimum period of 90 days from the due date of opening of the tender.
 - g. Samples, if called for, will be sent free of all charges.
 - h. Late tenders and Delayed will not be considered.
 - i. Offers made by Indian Agents on behalf of their Principals, should be supported by the Proforma Invoice of their Principals.
 - j. The authority of person signing the tender, if called for, shall be produced.
 - k. The purchaser reserves the right to accept or reject the lowest or any other offer in whole or in part without assessing any reason.


DEPUTY REGISTRAR
[PURCHASE & STORES]

IISERTVM
INSTRUCTIONS TO TENDERERS [INDIGENOUS].

1. Tenders should be sent in sealed envelopes superscribing the relevant tender no. and the due date of opening. Only one tender should be sent in each envelope.
2. Late tender and Delayed Tenders will not be considered under any circumstances.
3. Sales Tax and /or other duties/levies where legally levies and intended to be claimed should be distinctly shown separately in the tender.
4. (a). Your quotation should be valid for a minimum period of 60 days from the date of opening of the Tender. Quotation with firm prices will be preferred.
(b). Prices are required to be quoted according to the units indicated in the Invitation to Tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
5. **(a) Preference will be given to those tenders offering supplies from ready stocks. The basis of delivery is at IISER site free of cost.**
(b) Our payment terms are within 30 days of receipt and acceptance of the item at our site.
6. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.
(b) Samples, if called for, should be submitted free of all charges by the tenderer and the IISER shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to take back the samples at his own expense.
(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensional details are available the same should also be indicated in your offer.
(d) **Specifications:** Stores offered should strictly conform to our specifications. Deviations, if any should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary along with the quotations. Test Certificates wherever necessary should be forwarded along with supplies. Whenever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate reasons for the same.
7. IISER shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted.
8. Corrections, if any, in the Quotation must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Quotation must have price for each line item and totaling of the price including taxes and duties should be clearly mentioned.
9. The tenderer should mention the name of his bankers, Sales Tax Registration, PAN number etc in the tender.
10. The authority of the person signing the tender, if called for, should be produced.
11. The purchaser reserve the right to accept or reject the lowest or any other offer in whole or in part without assigning any reason.
12. IISER being a Govt of India Educational and Research Institute, is exempted from payment of Excise Duty under Notification No. 10/97 and Customs Duty under Notification No. 51/96- Customs dated 23rd July 2009. Also, we can issue Form 16 as per VAT Rules.
13. The stores supplied should be covered with minimum of 1 year warranty from the date of supply, installation and commissioning.
14. Earnest Money Deposit/ Bid Security should be submitted alongwith your quote as mentioned in Invitation for Tender. EMD should be in favour of Indian Institute of Science Education and Research Thiruvananthapuram valid for 90 days


DEPUTY REGISTRAR
[PURCHASE & STORES]