



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर 81, नॉलेजसिटी, प०ओ० मनोली, ए० ए० ए० नगर, मोहाली, पंजाब 140306

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH MOHALI

(Established by Ministry of Human Resource Development, Govt. of India)

Sector-81, Knowledge city, PO-Manauli, SAS Nagar Mohali-140306, Punjab

PAN No. - AAAAI1781K TAN NO. PTLI10692D

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

CPPP/Institute Website

IISERM (940)17/18Pur

Dated- 09th January 2018

E-TENDER NOTICE

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and Commercial} for the supply & installation of **ADVANCED POLYMER CHARACTERIZATION EQUIPMENT** along with accessories as per technical specification given below and BOQ list the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app>& Institute website www.iisermohali.ac.in.

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(Mukesh Kumar)

Assistant Registrar (S&P)



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E-TENDER NOTICE

Tender Ref.- IISERM(940)17/18 Pur	Dated :- 09 th January 2018
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Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	09 th January 2018	6:00pm
2.	Tender Document download start Date & Time	09 th January 2018	6:00pm
3.	Bid Submission start Date & Time	09 th January 2018	6:00pm
4.	Bid Submission End date and Time	30 th January 2018	Upto 11:00am
5.	Tender opening Date and Time	31 st January 2018	At 11.30 am

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** {Technical and Commercial separately} for following item(s) from the original manufacturer/supplier at CPPP i.e. <https://eprocure.gov.in/eprocure/app>. Tender documents may please be downloaded from the E-procurement portal website <https://eprocure.gov.in/eprocure/app> & Institute website www.iisermohali.ac.in. Tender fee in shape of DD/Banker Cheque of Rs 500/- (Non-refundable) and EMD of Rs. 60,000/- should be submitted by DD /Banker Cheque/FDR/ Bank Guarantee in favour of the Registrar, IISER Mohali payable at Mohali. However, scanned copy of the both tender fee and EMD should be upload on website along with technical bid part. The hard copy of the same in original to be send to the address mentioned below duly superscribing the supply/work name and reference/ tender ID on the envelope and same must reach before opening the bid and if not received within due date the bid will be rejected summarily.

The Original EMD and tender fee should be sent to:

Assistant Registrar (S&P)
Indian Institute of Science Education and Research,
Mohali Sector 81, SAS Nagar, Mohali, Punjab,
India, Pin: 140306

Non-receipt of original EMD and tender fee will lead to rejection of tender.

Item Details:-

Sr.	Details of Specifications	Qty.
1	<p data-bbox="331 192 1174 224"><u>ADVANCED POLYMER CHARACTERIZATION EQUIPMENT</u></p> <p data-bbox="331 228 1350 591">A Gel Permeation Chromatography System for rapid & reliable characterization of Relative molecular weight & molecular weight distributions for macromolecules ranging from natural to synthetic polymers using advanced chromatographic detectors. The Gel Permeation Chromatography system should consist of a Solvent & Sample Delivery system & must come along with multiple Set of Detectors, to deliver unparalleled robustness & performance for various Polymer Applications. The instrument must be able to perform Molecular Weight measurements using Conventional Calibrations & Universal Calibration, Molecular Weight Distributions & Molecular Conformation / branching Analysis & intrinsic Viscosity measurements. The Detailed specifications of the desired Gel Permeation Chromatography System are listed below:</p> <p data-bbox="331 595 552 622"><u>Pump Specifications:</u></p> <ol data-bbox="379 627 1168 757" style="list-style-type: none">1. Gradient Flow System: Isocratic2. Flow Rate Range: 0.01 to 9.95 mL/min3. Flow Accuracy: +/- 1.0% or better4. Flow Precision: <0.1% RSD or better5. Pump should be corrosion resistant and applicable to wide range of solvents. <p data-bbox="331 788 657 815"><u>Manual Injector Specifications:</u></p> <ol data-bbox="379 819 1350 869" style="list-style-type: none">1. A suitable Manual Injector with an appropriate stand should be quoted along with the instrument. <p data-bbox="331 900 485 927"><u>Column Oven:</u></p> <ol data-bbox="379 931 1350 1061" style="list-style-type: none">1. The column oven should accommodate the columns as well as all the multiple-detectors which have been asked below.2. The temperature control range of the column oven should be Ambient to 80°C or better.3. The column oven should be custom made by the manufacturer able to accommodate at least 3 to 5 numbers of 30cm columns. <p data-bbox="331 1093 667 1120"><u>Detection System Specifications:</u></p> <p data-bbox="331 1124 1350 1254">The Gel Permeation Chromatography System should preferably have a multiple detection system which offers precise & accurate temperature control by housing all the detectors & the Chromatographic columns together in the same thermal chamber, to maintain minimum inter-detector volumes & to reduce band broadening effects to provide unmatched baseline stability & data reproducibility. The Detailed specifications of the various detectors required to meet the applications are mentioned below:</p> <p data-bbox="331 1258 612 1285"><u>RI Detector Specifications:</u></p> <ol data-bbox="379 1290 798 1447" style="list-style-type: none">1. Cell Volume: 12ul or less2. Detector Linear Range: ±2500µ RIU3. Baseline Noise: 0.5µ RIU or less4. Measuring Principle: Deflection5. Temperature Range: Ambient to 60°C6. RI Range: 1.00 to 1.75RIU <p data-bbox="331 1478 702 1505"><u>Viscometer Detector Specifications:</u></p> <ol data-bbox="379 1509 1251 1666" style="list-style-type: none">1. Measuring Principle: Inert, 4 capillary differential Wheatstone bridge configurations.2. Measuring Volume: 20ul or less per arm3. Flow Rate: Water: 1.5ml/min THF: 3.0ml/min.4. Temperature Range: Ambient to 60°C5. Baseline Noise: <0.5mV6. Baseline Drift: <3 mV/Hr <p data-bbox="331 1697 670 1724"><u>UV-VIS Detector Specifications:</u></p> <ol data-bbox="379 1729 1232 1832" style="list-style-type: none">1. Wavelength Range: 190-700nm2. Light Source: Deuterium or tungsten Lamp with minimum life of 2000 hrs or more3. Cell Volume: 10ul or Less4. Wavelength accuracy of +/- 1nm <p data-bbox="331 1863 529 1890"><u>Software Features:</u></p> <ol data-bbox="379 1895 1350 2020" style="list-style-type: none">1. Suitable software to acquire data from all the detectors should be quoted.2. The software should be able to perform the following calculations: Mn, Mw, Mz, Mp, Mw/Mn using conventional Calibration methods.3. The software must be able to calculate the following parameters by using the Viscometer detector: IV [h], Rh, Branching Number, Branching Frequency, Number of Arms, MH-a, MH-	01

k, dn/dc, dA/dc. A2.

Columns & Standards:

1. General Mixed Org 300x8mm GPC columns must be quoted along with the instrument.
2. Suitable Guard Column for the above quoted Organic Column must be included.
3. Calibration of the equipment using Polystyrene standard should be done by the vendor.

Hardware:

1. COMPUTER OF STANDARD MAKE LIKE HP, Dell or Lenovo should be supplied with a minimum 3GB RAM, 500GB Hard Drive with latest version of windows based operating system
2. Online UPS 3 KVA with minimum 30 MINUTES battery backup

Warranty & Annual Maintenance Charges

1. The Entire instrument must be quoted with a complete comprehensive warranty of 2 year. The warranty must include all the electronics & spare parts & consumables that may be required for the trouble-free operation of the instrument.
2. Additional Annual Maintenance Charges for 2 Years after the expiry of two years warranty must be quoted along with the instrument.
3. Dedicated Training for two scientists at IISER, Mohali for 1 week on the Advanced Gel Permeation Chromatography system, at our campus must be quoted along with the instrument.

OPTIONAL ITEMS

1. Right Angle Light Scattering Detector (RALS): The quoted instrument must be upgradeable on-site with a Right Angle Light Scattering detector to get absolute molecular weight measurements.
2. On upgradation with the RALS detector, the system should be able to perform triple detection calibration.
3. Light scattering standard required for triple detection calibration must be quoted as an option.
4. Various Organic & Aqueous columns with different molecular weight ranges, along with the guard columns must be quoted as an option along with the bid.

NB:- The online updated Price BOQ is in INR format. If bidder want to quote other than INR please specify the quoted currency in the technical bid/part and fill the amount in same updated BOQ.

SUBMISSION OF TENDER

- I. All bid/ tender documents are to be uploaded online at Central Public Procurement portal i.e. <https://eprocure.gov.in/eprocure/app> only and in the designated cover/ part on the website against tender ID. Tenders/ bids shall be accepted only through online mode and no manual submission of the same shall be entertained except tender fee and EMD. Late tenders will not be accepted.
- II. The online bids shall be opened at the office of the Assistant Registrar (P&S), IISER Mohali, on above given date and time. If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be attended on the next working day at same time and place. IISER Mohali will not be responsible for any error like missing of schedule data while downloading by the Bidder.
- III. The bidder shall upload the tender documents duly filled in and stamped by the authorized signatory on each and every page. Tender not submitted/uploaded in the prescribed form and as per the tender terms and conditions shall be liable for rejection.
- IV. The bidder shall upload scanned copy of the PAN Card, GST number duly signed and stamped.
- V. E-procurement system ensures locking on the scheduled date and time. The system will not accept any bid after the scheduled date and time of submission of bid.

INSTRUCTIONS

1. The Online bids should be submitted directly by the original manufacturer/supplier, If quotation is submitted/filled by any representative/agent/dealer then they must upload a authority certificate from the principal company for quoting the price otherwise such quotation will be

rejected.

2. 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. Before the deadline for submission of the online bid, IISER Mohali reserves the right to modify the tender document terms and conditions. Such amendment/modification will be notified on website against said tender ID
3. 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 from outside India should mention the Ex-works/FOB/FCA/CIF/CIP price clearly. Conditional tenders will be summarily rejected.
4. 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.
5. THE INSTITUTE IS EXEMPTED FROM EXCISE AND CUSTOM DUTY under notification no- 51/96 –CUSTOM DATED 23/7/1996 AND DSIR REGISTRATION NO TU/V/RG/-CDE(1062)/2016 DT. 30/08/2016 / EXCISE NOTIFICATION NO. 10/97- CENTRAL EXCISE DT. 01.03.1997.
6. Please also provide/upload the copy of PAN card, GST number duly self-attested.
7. Concessional GST is applicable for all the items purchased for Research labs vide Ministry of Finance notification no 45/2017 dt 14-11-2017 and 47/2017 dated 14-11-2017.
8. Quotation received from different bidders of same OEM is liable to be REJECTED
9. The delivery period should be specifically stated. Earlier delivery will be preferred.
10. The firms are requested to provide/upload 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.
11. Validity of offer: 90 days. The warranty period after satisfactory installation should be mentioned and firm should replace all manufacturing defect parts/ whole item under warranty without any extra cost including clearance, freight, taxes. Security deposit/ Bank Performance Guarantee @ 10 % of the value of supply order as per norms may be sought from the firms.
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 by the IISER Mohali. For any corrigendum and addendum please be checked the website <https://eprocure.gov.in/eprocure/app> and <http://www.iisermohali.ac.in>
13. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

–sd/-
(Mukesh Kumar)
Assistant Registrar (S&P)