



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली
मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित
सैक्टर 81, नॉलेजसिटी, प० ओ० मनोली, एस० ए० एस० 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. - AAAAII1781K GST: 03AAAAII1781K2ZS

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

CPPP/Institute Website

IISERM(1155)18/19-Pur

Dated : 04.01.2019

NOTICE INVITING E-TENDER

Online tenders are invited on behalf of Director, IISER Mohali in **TWO BID SYSTEM** for **Supply and installation of UPLC- MS combined with UV-VIS Spectrophotometer** from reputed companies/firms/ individuals/ societies etc. those are in the similar business 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(1154)18/19-Pur	Dated :- 04 th January, 2019
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Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	04 th January, 2019	6:00pm
2.	Tender Document download start Date & Time	04 th January, 2019	6:00pm
3.	Bid Submission start Date & Time	04 th January, 2019	6:00pm
4.	Bid Submission End date and Time	24 th January, 2019	Upto 11:00am
5.	Tender opening Date and Time	25 th January, 2019	At 11.30 am

Online tenders are invited on behalf of the Director, IISER Mohali in **TWO BID SYSTEM** 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 590/- (Non-refundable) and EMD of Rs.1,50,000 /- 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:

S. No.	Details of Specifications of the Stores	Qty (in units)
1.	<p>Supply and installation of UPLC- MS combined with UV-VIS Spectrophotometer</p> <p><u>Technical Specifications:</u></p> <p>Liquid Chromatography-Mass Spectrometry setup with UV-Visible Spectrophotometer for determination of total Nucleotides/Proteins content in biological samples followed by analysis of their enzymatic/catalytic fragmentation products.</p> <p><u>Ultra-High Performance Liquid Chromatograph: -</u></p> <ol style="list-style-type: none">1. Pump: Quaternary pump with 100 ul/min to 2 ml/min flow rate with the increment of 0.001 ml/min and a back pressure of 10000 psi or higher at 2 ml/min flow. The RSD of pump should be 0.07% RSD or better. The system should handle the solution of pH range 1 to 12. Composition range should be 1 - 99 % or better. Composition accuracy should be < 0.15 % RSD based on retention time at constant room temperature. System should have Intelligent System Emulation Technology for method transfer. System should have blend assist to reduce manual interaction during method development. Module should have leak sensor.2. Autosampler: The autosampler with 10000 psi pressure should offer injection range of 0.1ul to 20 ul with carryover< 0.005%. Should offer vial capacity of 130 vials of 2ml or better and should have capability to hold different size of vials. Sampler should have auto-dilution and auto-derivatization. Module should have leak sensor.3. Column oven: The column oven compartment should work from 5 deg C above ambient to 80 deg C. It should have capability to accommodate 2 columns of 25 cm long simultaneously. Module should have leak sensor.4. PDA/DAD Detector: Should have wavelength of 190 to 950nm with accuracy of ± 1nm. The light source should include Deuterium as well as Tungstun lamps providing sampling rate of 120 Hz. Detectors type :1024 element Diode Array. Standard flow cell with 10 mm path length should be quoted along with detector. Module should have leak sensor.5. The tool kit, starter kits should be quoted for routine running and maintenance of HPLC system.6. The above HPLC will be used as front end to Single Quadrupole mass spec system, hence all required communication devices & cables and software, as required by system should be quoted by vendor. <p><u>Single Quadrupole Mass Spectrometer: -</u></p> <ol style="list-style-type: none">1. Ionization source Dedicated ESI source should be quoted. The source should be capable to handle flow rate up to 2ml/min.2. Interface of system = Simple interface for maintaining cleanliness of ion optics and capable of handling large batches of complex samples. The ionization spray should	01

be orthogonal (90 deg) to interface.

3. Vacuum System = A fully protected air cooled vacuum system using turbo molecular pumps and rotary pumps. Vacuum read backs and automated vent system.
4. System Calibration = Should have auto tuning and automatic calibration of system.
5. Mass Range = 10 to 2000 m/z
6. Mass Stability = 0.1 amu across 12 hours or better
7. Scan Speed = 10,000 amu/sec or better.
8. Resolution = Unit Resolution
9. ESI sensitivity in SIM mode = 100:1 RMS for 1pg on column quantity of Reserpine in ESI with both +ve and -ve mode.
10. Desolvation temperature: 350 °C or better.
11. Linear Dynamic Range = 6 order of dynamic range for quantitative applications.
12. Suitable PC, printer, 4 L Sonicator with Temperature Controller and vortex mixer should be provided.
13. Online 5 KVA UPS of 30min backup should be quoted.
14. Imported Nitrogen gas generator with inbuilt compressor should be quoted.
15. Suitable 150 mm & 50 mm C18 and C4 Columns – Qty 2 each and 1 pc. of 100 mm C18 Column.

UV-Visible Spectrophotometer:-

High scanning Spectrophotometer along with below features & typical performance:-

1. Wavelength Range : 190-1100 nm
2. Specialized source : High energy Xenon or suitable source with room light immunity
3. Bandwidth : 1.5nm or better
4. Scanning rate : 0.1- 20000 nm/min for kinetic studies or better
5. Stray light (%T) @370nm : $\leq 0.009\%$ T or better
6. Photometric accuracy : ± 0.0007 Abs (NIST 930 @1 A)
7. Photometric noise@500nm : ± 0.005 Abs (NIST 930 @1 A)
8. Photometric Linear Range : ± 4 Abs or better
9. Baseline Flatness : ± 0.0005 Abs or better
10. Photometric reproducibility : ≤ 0.004 Abs @ 1A
11. Photometric stability (500 nm) : <0.0004 Abs/h
12. Wavelength accuracy : ± 0.07
13. Wavelength reproducibility : ± 0.01 nm
14. Detector: 2 silicon diode detectors for simultaneous sample beam and reference beam measurement.
15. Standard Accessories : Quartz Cuvette Pair with stopcock having 10 mm pathlength (Volume 1ml & 3ml). Single cell Peltier accessories (0-100 Deg C) with temperature

probe, stirrer and controlling software. PC, Color Laser jet Printer & Five additional UV VIS software license copies for data analysis. 3 KVA Online UPS with 30 min backup, one additional lamp set Or three year replacement Guarantee on Lamp.

Future Upgradation: Stop flow accessory & Micro Volume Cell setup for low volume upto 5 ul.

Warranty :-

12 Months warranty from date of installation on Instruments, PC, Printer and UPS including Batteries.

Consumables:-

1. ESI Calibration Solution Qty 1
2. Clear vials with septa : 1000
3. Amber vials with septa: 1000
4. Solvent filter : 8
5. Frits/Pre filters : 30
6. Pump seal : 2
7. PEEK Ferrules: 40
8. PEEK Tubing : 6 m
9. 1L rough pump fluid : 1
10. Mist filter element : 1
11. 5um frit inlet filter : 1
12. Canted coil spring : 1
13. Vespel rotor seal : 1
14. 0.2 and 0.45 micron Filters (PES + PTFE)

Important note:-

1. Vendor should have ISO 9001 Certification.
2. All specifications asked in tender should be supported by published literature preferably with publication number. Any claim deviating from published documents will not be entertained. Information in published documents will be taken for final comparative.
3. All the requirements laid down under the above specifications must carefully read and understood before claiming your instrument as “complied”.
4. Please provide compliance statement sheet with technical bid and if there is any deviation in above mentioned specifications should be clearly highlighted in remarks.
5. User list should be attached along with literature.
6. The vendor should have office or agents in India. Qualified technical and service personnel should be available in India (preferably in Chandigarh or Delhi).
7. Additional warranty for 2 years (optional)

NB:

1. 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.
2. Please bifurcate the price on shipping terms i, e, Ex-works -> FCA/FOB -> CIP/CIF in price BOQ and specify the same in technical bid.

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- TU/V/RG/-CDE(1062)/201 CUSTOM DT.30.08.2016.
6. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of GST should be clearly indicated included or excluded) wherever chargeable. 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. 45/22017 dated 14.11.2017 and 47/2017 dated 14.11.2017.
8. Bidder/s quoting in currency other than **Indian Rupee (INR)** should explicitly mention the

currency in which tender quoted wherever applicable in Technical Bid along the tender documents.

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)