



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर 81, नॉलेज सिटी, 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. - 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 (918)18/19Pur/SP-II/03

Dated- 21st August 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 **Gas Chromatograph (GC)** 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(918)18/19 Pur/SP-II/03	Dated :- 21 st August 2018
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Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	21 st August 2018	6:00pm
2.	Tender Document download start Date & Time	21 st August 2018	6:00pm
3.	Bid Submission start Date & Time	21 st August 2018	6:00pm
4.	Bid Submission End date and Time	10 th September 2018	Upto 11:00am
5.	Tender opening Date and Time	11 th September 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 590/- (Non-refundable) and EMD of Rs. 75,000/- 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.
01	Gas Chromatograph (GC) - Technical Specifications	01
General Features of GC	<ol style="list-style-type: none"> 1. Fully automated with programmable pneumatic control (digital control) /AFC/EPC for injector, detector and purge gas. . 2. Instrument should be compatible to computer and software should be Window 7 or latest. 3. Basic system with EPC/AFC/PPC control for carrier/detector zone gases. 4. EPC/ PPC/AFC should provide optimum performance with all types of columns and detectors 5. All parameters should be stored as a part of method for better analysis reproducibility. 	
Gas Flow control	<ol style="list-style-type: none"> 1. Must come standard with programmable pneumatic control/EPC/AFC. 2. Digital Pneumatic Control for setting column flow with pressure, flow and linear velocity. 	
Inlet configuration	<ol style="list-style-type: none"> 1. Both Inlets should be controlled by EPC/PPC/AFC. 2. Removable glass liner for trapping non-volatile residues. <p>Split/splitless capillary injector (01 Nos)</p> <ol style="list-style-type: none"> 1. Operating Temperature range upto 400 °C 2. Split Ratio: 500:1 3. PPC/AFC/EPC pneumatics include automatic control of split vent by split flow or split ratio. <p>Temp Programmable Split/splitless capillary injector/PTV/MMI (01 Nos)</p> <ol style="list-style-type: none"> 1. Temperature-programmable inlet 2. Temperature-programming up to 9 ramps and at up to 800 deg C/ Min. 3. Operating Temperature range 50 °C to 400 °C 4. Split Ratio: 500:1 5. PPC/AFC/EPC pneumatics include automatic control of split vent by split flow or split ratio. 	
GC detector	<p>FID: Qty-1</p> <p>MDL: < 1.4 pg c/s or better.</p> <p>Dynamic range: > 10⁷.</p> <p>Data acquisition rate: up to 400 Hz or better.</p> <p>All gases flow should be adjustable/controlled by software with no manual control.</p>	
GC Oven Characteristics	<ol style="list-style-type: none"> 1. Volume: approximately 10 Litres or more for easy fixing and removing different types/dimension of columns without compromising rate of heating or cooling of oven. 2. All temperature and time functions should be micro-processor controlled, column over-heat protection, should be settable up to 450 °C. 3. Oven must accommodate upto two 30m × 0.25 mm id capillary columns. 4. Temperature ramps should be 20 or more. 	
Autosampler	<ol style="list-style-type: none"> 1. Inbuilt /External auto-sampler - Suitable vial capacity for analysis of 15 samples. 2. Vial size – 1.5 ml or 2 ml 3. Waste and wash vial size - 4 or 8 ml 4. Sampling volume - Capable to inject from 0.1 µl to 50 µl 5. Auto-sampler should be operational for both the inlets simultaneously without any hardware change. 	

Detector	Mass Spectrometer (MS): <ol style="list-style-type: none"> 1. Must have EI (Electronic ionization). 2. Source Temp : 150-350 Degree C. 3. Guaranteed EI scan sensitivity to be demonstrated at the time of installation: 1500:1 S/N for 1 pg OFN & IDL: 10 fg using 100fg or 0.1 pg OFN, 1ul Injection. 4. Mass number range: m/z 5.0 to 1000 amu or better 5. Scan rate upto 12,500 amu/sec or better 6. Mass Stability should be 0.1m/z over 48 hours 7. EI voltage should be 10-100eV or better 8. Analyzer should be non-heated /heated quadrupole. 9. MS must have at least unit mass resolution. 10. MS must have a linear dynamic range of at least 10⁶ or better. 11. Ion source can be easily removable 12. Filament should be of best quality. 13. Single Turbo-molecular Pump : 250 L/s
Software	<ol style="list-style-type: none"> 1. Software performing data analyses at least as per DIN/ISO/US-EPA, calibration, blank correction, data import, export, handling and reporting, quality control protocols, computer based training 2. License copy of Software should be supplied along with pre-loaded on PC and GCMS system. No migration/upgrade kit or Copy to right software is acceptable. 3. 2017 NIST Library with original CD and documents should be quoted.
Consumables for GCMS	<ol style="list-style-type: none"> 1. Auto-sampler Syringe-- Qty 7 2. Liner for split/splitless mode – Qty 5 each 3. Compatible Ferrules for MS – Qty 10 4. MS Filament for EI--- Qty 2 5. Vacuum Pump Oil ---10 Liters 6. 2 ml Vials with screw cap --- Qty. 1000 7. Screw Caps & Septa for 2 ml vials—Qty. 1000 8. Inlet Septa – Qty. 500 9. Column net for MS – Qty 10
Columns	<ol style="list-style-type: none"> 1. 5ms column with dimensions 30m x 0.25 x 0.25 Qty of 2 from OEM.
Application and Training	<ol style="list-style-type: none"> 1. Vendor to provide comprehensive training related to operation, calibration, maintenance & safety of equipment at IISER immediate after acceptance of the equipment. However, vendor should also answer to the queries over phone and email, if required.
Warranty	<ol style="list-style-type: none"> 1. Warranty : 5 years warranty on complete system including Gas Chromatograph, Autosampler Sampler, Computer, Printer, Gas Purification Panel, Gas Regulators, & UPS including Batteries.
Computer and other Hardware	<ol style="list-style-type: none"> 1. Latest Factory set, Computer system with 24 inch or more full HD monitor with licensed windows 2. Branded Multi-Functional Black and White Laser Printer. 3. Suitable UPS with 1 Hr Backup 4. N2, He, Zero Air, Hydrogen gas cylinders with dual stage regulators with manifold and gas Panel for all gases. 100 Feet SS Tubing with color sleeves, 30 Feet Plastic channel.
Upgradability	<p>The quoted System should be upgradable with followings: -</p> <ol style="list-style-type: none"> 1. Pyrolyzer. 2. CI Mode with below S/N Ratio:- Guaranteed PCI scan sensitivity to be demonstrated at the time of installation: 300:1 for 100 pg of BZP. Guaranteed NCI scan sensitivity to be demonstrated at the time of installation: 2000:1 for 100 fg of OFN.

Technical Literature	1. 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.
	Important note:- 1. Vendor should have ISO 9001 Certification. 2. All the requirements laid down under the above specifications must carefully read and understood before claiming your instrument as “complied”. 3. Please provide compliance statement sheet with technical bid and if there is any deviation in above mentioned specifications should be clearly highlighted in remarks. 4. User list should be attached along with literature. 5. The vendor should have office or agents in India. Qualified technical and service personnel should be available in India (preferably in Chandigarh or Delhi).

Note Below:

- I. 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.
- II. 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- 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. GST Exemption - MINISTRY OF FINANCE, (DEPARTMENT OF REVENUE) Notification No.45/2017- Central Tax (Rate) dated 14th November, 2017 47/2017-Integrated Tax (Rate) 14th November, 2017 for purpose of availing concession in rate of GST admissible to Scientific/Research and academic Institutions.
7. The delivery period should be specifically stated. Earlier delivery will be preferred.
8. 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.
9. Validity of offer: 180 days minimum. 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.
10. 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>
11. Disputes, if any, shall be subject to jurisdiction in the court of Mohali only.

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