



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर 81, नॉलेज सिटी, प०ओ० 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](http://www.iisermohali.ac.in)

IISERM(877)17/18Pur

Dated- 30th November 2017

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** 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.

-sd-

(Mukesh Kumar)

Assistant Registrar (S&P)



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान मोहाली

मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा स्थापित

सैक्टर 81, नॉलेज सिटी, पं०ओ० 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

E-TENDER NOTICE

Tender Ref.- IISERM(877)17/18 Pur

Dated :- 30th November 2017

Critical Date Sections

Sr.	Description	Date	Time
1.	Tender Publishing Date and time	30 th November 2017	6:00pm
2.	Tender Document download start Date & Time	30 th November 2017	6:00pm
3.	Bid Submission start Date & Time	30 th November 2017	6:00pm
4.	Bid Submission End date and Time	27 th December 2017	Upto 11:00am
5.	Tender opening Date and Time	28 th December 2017	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. 40,000/- 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.	<p>Gas Chromatograph and accessories</p> <p>Tender specification-</p> <p>1. Programmable Gas Chromatograph capable of analyzing H2, O2 simultaneously, and possibility of future upgradation for measurement of N2, CO, CO2, Acetylene,Methane, Ethane, Ethylene gases with specifications described below.</p> <p>2. The quoted Gas chromatographic system should be fully automatic microprocessor controlled with self-diagnostic facility and computer operable.</p> <p>3. Minimum detection limit (MDL) for the gases to be detected</p> <table><tr><td><u>Gases</u></td><td><u>MDL (in ppm(Volume/Volume))</u></td></tr><tr><td>Hydrogen</td><td>20</td></tr><tr><td>Oxygen</td><td>20</td></tr></table> <p>4. Maximum Detection Limit : 10% or more. (Maximum detection limit sholud be specified)</p> <p>5. OVEN and Columns</p> <p>a) Temperature range : 5°C above ambient to 400°C or better</p> <p>b) Ramp and Ramp rate : Should have more than 15 heqating ramps at a ra up to 60°C/ min. or better. Cooling ramp should also be there at a fast ra</p> <p>c) Oven Cool Down: 350 to 50°C within 10 minutes or faster</p> <p>d) Pneumatics Programmable Electronic controls for injectors (pressure column flow) with single point control via software</p> <p>e) Pressure setting range: 100psi or better</p> <p>f) Flow/Pressure Controller: Sufficient Pneumatic control channels for in or auxiliary gases through Data Processor with screen display pressure/flow</p> <p>g) Pneumatic control setting: Pneumatic control setting facility for inlet sh be</p> <p>h) included in computer work station system</p> <p>i) All water sensitive colums should be provided with adequate mois protection, as the gas samples will always contain water.</p> <p>6. GC should have Electronic Flow Control System such as constant pressure, ramped pressure, constant flow and ramped flow for carrier gases, Detectors and for auxiliary gases.</p> <p>7. <u>Software & Data System</u></p> <p>a) Latest 32-bit software should be compatible with Windows 7 or 10, original full version license software should be supplied. The original software license certificate from the manufacture should be provided.</p> <p>b) The vendor should provide a free replacement/upgradation of the software if its new version is available within 5 years of installation.</p> <p>c) The software should carryout simultaneous analysis and report generation..</p> <p>d) The report should have the chromatogram of the from the two TCD detectors and the concentration of the individual components.</p> <p>e) The software should have single and batch analysis capability,</p>	<u>Gases</u>	<u>MDL (in ppm(Volume/Volume))</u>	Hydrogen	20	Oxygen	20	01
<u>Gases</u>	<u>MDL (in ppm(Volume/Volume))</u>							
Hydrogen	20							
Oxygen	20							

	<p>automatic and manual peak integration, manipulation, identification, quantification, all important calibration features.</p> <p>8. Detectors:</p> <p>Thermal conductivity detector</p> <ol style="list-style-type: none"> i. Temperature Range to 350 °C or more ii. The TCD detector should have a minimum detection range of <1 ppm and a linear dynamic range of >10⁵ or better iii. Filament Protection, fully Electronic Control <ol style="list-style-type: none"> 9. Built-in large LCD display with provision to display chromatograms, method parameters like temperature, pressure & flow rates etc. 10. The supplier should mention whether this GC can be modified in future to measure products of CO₂ reduction reaction and N₂. If so, what are the minimum and maximum detection limit for N₂, CO, CO₂, Acetylene, Methane, Ethane, Ethylene. How many different columns are required and what gases can be measured with each column. Supplier should optionally quote these columns. Supplier should mention if researchers can change the columns easily after getting training. <p>11. ACCESSORIES:</p> <ol style="list-style-type: none"> a) All necessary gases for the measurement of the above mentioned gases including Helium, Argon, Nitrogen cylinders and respective dual stage regulators – 2 sets each should be quoted separately. b) All calibration gases necessary for the above mentioned measurements should be quoted separately. c) Toggle Valve 1/8 - 2 nos d) Wall mount Gas purification system should be quoted separately e) Injection port septa-200 Nos. f) Graphite Ferrule (100 Nos.) g) Molecular sieve 5A packed column – 2 Nos. h) Gas tight syringes of capacity (0.25 ml, 0.5 ml, 1ml, 2.5ml, 5 ml and 10 ml)- 3 Nos each i) Sample loops – 2 ml, 1 ml, 5 ml - 2 Nos. Each j) Include Spare columns – 2 No. Each <ol style="list-style-type: none"> 12. The supplier should provide certificate for minimum detection limit based on their factory-laboratory testing. 13. The supplier should mention if they have installed similar facility elsewhere in India and share their contact details for feedback. If so, they should compare the quoted system with the latest 2 installations for similar application. <p>14. Warranty: The instrument should carry complete warranty of at least 36 months from installation date. Additional two years AMC can be quoted separately.</p>	
--	---	--

NB:- The online updated Price BOQ is in INR format. If bidder wants 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. Tax: This Institute is not exempted from the payment of GST. The current rate (i.e. percentage of Sales Tax should be clearly indicated included or excluded) wherever chargeable. Please also provide/upload the copy of PAN card, GST number duly self-attested.
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: 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.
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)