

	<p align="center">INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036 STORES & PURCHASE SECTION Email: adstores@iitm.ac.in Telephone : (044) 2257 8285/8287/8290 FAX: (044) 2257 8292 GSTIN: 33AAAAI3615G1Z6</p>	
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P K Sheba Sabari
Assistant Registrar (Stores & Purchase)

Date: 29.02.2024

Tender No. IITM/SPS/GC-MSFID/GTE/033/2023-24

Due Date: 06.03.2024
Before 02.00 p.m.

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, Tenders are invited in two bid system namely Technical bid and Financial bid, for

**SUPPLY OF GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH
FLAME IONIZATION DETECTOR – 1 No.**

Conforming to the specifications enclosed.

Tender Documents may be downloaded from Central Public Procurement Portal <https://etenders.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement should enroll/register before participating through the website <https://etenders.gov.in/eprocure/app>. The portal enrolment is free of cost. Bidders are advised to go through instructions provided at “Help for contractors”. [Special instructions to the bidders for the e-submission of the bids online through this e-Procurement Portal”].

Tenderers can access tender documents on the website (For searching in the NIC site, kindly go to Tender Search option and type ‘IIT’. Thereafter, Click on “GO” button to view all IIT Madras tenders). Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <https://etenders.gov.in/eprocure/app> as per the schedule attached.

No manual bids will be accepted. All tender documents including Pre-qualification, Technical and Financial bids should be submitted in the E-procurement portal.

1	LAST DATE for receipt of Tender	: 06.03.2024 before 02.00 p.m.
	Date & Time of opening of Tender	: 07.03.2024 @ 03.30 p.m.
GUIDELINES FOR TENDER SUBMISSION IN CENTRAL PUBLIC PROCUREMENT PORTAL (E-PROCUREMENT MODE)		
A	निविदा की प्रस्तुति /Submission of Tender	: As per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal URL: https://etenders.gov.in/eprocure/app The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

		<p>More information useful for submitting online bids on the CPP Portal may be obtained at: https://etenders.gov.in/eprocure/app</p> <p>All tender documents including Technical Bid & Financial Bid should be submitted separately in online CPP portal as per the specified format only. Right is reserved to ignore any tender which fails to comply with the above instructions. No manual bid submission will be entertained.</p>
B	ऑनलाइन बोली जमा के अनुदेश / Instructions for online bid submission	<p>REGISTRATION</p> <ul style="list-style-type: none"> Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal URL: https://etenders.gov.in/eprocure/app by clicking on “Online Bidder Enrolment”. Enrolment on the CPP Portal is free of charge. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.) https://eprocure.gov.in/eprocure/app with their profile. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSCs to others which may lead to misuse. Bidder then may log in to the site through the secured log-in by entering their user ID / password and the password of the DSC / eToken.
C	निविदा दस्तावेज़ की खोज / Searching for tender documents	<ul style="list-style-type: none"> There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, organization name, location, date, value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as organization name, form of contract, location, date, other keywords etc. to search for a tender published on the CPP Portal. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective “My Tender” folder. This would enable the CPP Portal to intimate the bidders through SMS / email in case there is any corrigendum issued to the tender document. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.
D	बोली की तैयारी / Preparation of bids	<ul style="list-style-type: none"> Bidder should take into account any corrigendum published on the tender document before submitting their bids. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid. Bidder, in advance, should prepare the bid documents to be submitted as indicated in the tender document / schedule and generally shall be

		<p>in PDF / XLS formats as the case may be. Bid documents may be scanned with 100 dpi with black and white option.</p> <ul style="list-style-type: none"> To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GSTIN Details, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use “My Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Documents” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.
E	बोली की प्रस्तुति / Submission of bids	<p>:</p> <ul style="list-style-type: none"> Bidder should log into the site well in advance for bid submission so that he/she can upload the bid in time i.e. on or before the bid submission date and time. Bidder will be responsible for any delay due to other issues. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document. A standard BOQ format has been provided in Annexure-C with the tender document to be filled by all the bidders. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to download the BOQ file, open it and complete the detail with their respective financial quotes and other details (such as name of the bidder). If the BOQ file is found to be modified by the bidder, the bid will be rejected. The server time (which is displayed on the bidders’ dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission. The Tender Inviting Authority (TIA) will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders due to local issues. The uploaded tender documents become readable only after the tender opening by the authorized bid openers. Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details. Kindly add scanned PDF of all relevant documents in a single PDF file of compliance sheet.
F	बोलीदाताओं के लिए सहायता / Assistance to bidders	<p>:</p> <ul style="list-style-type: none"> Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk. The contact number for the helpdesk is [0120-4200462, 0120-4001002, 0120-4001005]
G	बोलीदाताओं के लिए सामान्य अनुदेश / General Instructions to the Bidders	<p>:</p> <ul style="list-style-type: none"> The tenders will be received online through portal https://etenders.gov.in/e procure/app. In the Technical Bids, the bidders are required to upload all the documents in single pdf file. Possession of a Valid Class II/III Digital Signature Certificate (DSC) in the form of smart card/e-token in the company's name is a prerequisite for

		<p>registration and participating in the bid submission activities through https://etenders.gov.in/e procure/app</p> <ul style="list-style-type: none"> Digital Signature Certificates can be obtained from the authorized certifying agencies, details of which are available in the web site https://etenders.gov.in/e procure/app under the "Information about DSC".
H	बयाना जमा ईएमडी Earnest Money Deposit (EMD)	<p>i. EMD of INR 2,49,000 (Rupees Two Lakhs and Forty Nine Thousand only) should be transferred through NEFT/RTGS to the following bank account on or before due date 06.03.2024 before 2:00 p.m.</p> <p style="padding-left: 40px;"> Name : Registrar IIT Madras Bank : State Bank of India Account No. : 10620824305 Branch : IIT MADRAS IFSC CODE : SBIN0001055 </p> <p>ii. As per O.M. No.F.1/2/2022-PPD Dated 01.04.2022, the EMD will be returned to the unsuccessful Bidder(s), within 30 days after declaration of result of first stage i.e. technical evaluation etc. The EMD shall be forfeited if any Bidder withdraws the offer before finalization of the tender.</p> <p>iii. The EMD amount should not be sent through DD.</p> <p>iv. Non-submission of EMD details on or before the due date and time will result in rejection of the e-bid.</p> <p>v. As per Rule 170 of GFR 2017, exemption of EMD will be given subject to submission of undertaking by the firm seeking such exemption. Copies of relevant orders/ documents regarding such exemption should be submitted along with the tender document.</p> <p>vi. The successful bidder shall submit a Performance Guarantee of 3% of the purchase order value by way of DD/Bank Guarantee (Including e-Bank Guarantee)/FDR/ Insurance surety bonds in favour of "The Registrar, IIT Madras" to be obtained from any commercial bank, within 14 (Fourteen) days from the date of issue of order by IIT Madras, which would be released 60 days after the successful completion of the warranty period after the adjustment dues if any without interest.</p> <p>vii. In case of successful bidder, the EMD will be adjusted towards the Performance Guarantee on request, subject to validity.</p> <p>viii. The amount of EMD is liable to be forfeited if the bidder withdraws the offers after submission of the tender or after the occupation of the offer and fails to remit the Performance Guarantee.</p>
I	तकनीकी बोली पर मार्किंग /Marking on Technical Bid	<p>i. The Pre-Qualification criteria, technical specification of the item for this tender is given in Annexure A. The Bidders shall go through the bidder eligibility criteria, technical specification and submit the technical bid in the proforma given in Annexure B in the tender document along with the supporting documents.</p> <p>ii. The Technical bid should be submitted in pdf format only through online (e-tender). No manual submission of bid will be entertained.</p> <p>iii. The technical bid should have the page-wise heading as "Technical Bid" and page no. in all pages with seal and signature of authorized signatory. The total no. of pages should be mentioned at the last page of the documents.</p> <p>iv. The technical bid should consist of</p> <p>a) Document proof for EMD payment</p>

		b) Technical Compliance sheet as per proforma given in Annexure -B c) Document proof for bidder eligibility criteria, technical details along with catalogue / brochure and other technical, commercial terms and conditions.
J	वित्तीय बोली पर मार्किंग Marking on Financial Bid	: Financial bid (BOQ) should be submitted in the prescribed format given in Annexure- C in xls format through e-tender only. No manual or other form of submission of Financial Bid will be entertained.

निविदा के निबंधन व शर्तें / TERMS AND CONDITIONS OF TENDER	
1	निविदा की तैयारी / Preparation of Tender: <ul style="list-style-type: none"> • The bids should be submitted through online only in two bid system i.e. Technical Bid and Financial Bid separately. • The bidder has to submit the tender document duly signed on all pages by an authorized person and his / her full name and status shall be indicated below the signature along with official seal/stamp of the firm. Submission of wrong / forged information / document will be liable to legal action, and rejection of the bid submitted by the firm. • The bids of the agency/firm/company not in possession of valid statutory license / registrations are liable for rejection. • If any relative of the bidder is an employee of the IIT Madras, the name, designation and relationship of such employee shall be intimated to the Registrar, IIT Madras in writing while submitting the bid. • No bidder will be allowed to withdraw / alter / modify the bid during the bid validity period.
2	निविदा पर हस्ताक्षर / Signing of Tender: The bid is liable to be rejected if complete information is not given therein or if the particulars and date (if any) asked for in the schedule to the tender are not fully filled in or not duly signed/authenticated. Specific attention is drawn to the delivery dates and terms and conditions enclosed herewith. Each page of the bids shall be duly signed with the official seal of the Bidders. If the bid is submitted by a firm in partnership, it shall be signed (with seal) by all the partners of the firm above their full typewritten names and current addresses. Alternatively it shall be signed by a partner holding power of attorney for the firm in which case a certified copy of the power of attorney shall accompany the bid. A certified copy of the partnership deed along with current addresses of all the partners of the firm shall also accompany the bid. If a limited company or a corporation makes the application, it shall be signed by a duly authorized person holding power of attorney for signing the bid, in which case a certified copy of the power of attorney shall accompany the bid. Such limited company or corporation may be required to furnish satisfactory evidence of its existence. The bidder shall also furnish a copy of the Memorandum of Articles of association duly attested by a Notary Public.
3	वह अवधि जिसके लिए ऑफर खुला रहेगा / Period for which the offer will remain open: The Tender shall remain open for acceptance/validity till: 120 days from the date of opening of the tender. However, the day up to which the offer is to remain open being declared closed holiday for the Indian Institute of Technology Madras, the offer shall remain open for acceptance till the next working day.
4	कीमत Prices: <ul style="list-style-type: none"> • The prices quoted by the bidders should be inclusive of Training, Installation, Transportation, GST and other charges. • All conditional tenders will be summarily rejected.

5	<p>भुगतान टीमें Payment terms :</p> <ul style="list-style-type: none"> • Import: Letter of Credit (90% against shipping documents and 10% against installation) • Local: 90% against delivery at site and 10% after installation. • Advance if any required may be considered against the request of successful vendor by submitting equivalent amount of BG in addition to Performance Security Deposit.
6	<p>सुपुर्दगी / Delivery:</p> <ul style="list-style-type: none"> • The delivery period shall be 12-16 weeks from the date of issue of purchase order. No further extension of time will be allowed. Non delivery of items will lead to cancellation of Purchase Order without any notice.
7	<p>Installation:</p> <ul style="list-style-type: none"> • Onsite installation/application training for minimum 3 days by the company designated application scientist for a group of technical staff/students for operating the instrument to complete analysis including software learning • Installation must be done at user site with no extra cost. • Installation and training should be included in the price quoted.
8	<p>Training & Service Availability:</p> <ul style="list-style-type: none"> • Service engineer should be available to train our personnel at least 3 times in the first year. Free technical support should be given in the warranty period when required.
9	<p>गारंटी/Warranty:</p> <ul style="list-style-type: none"> • 3 years Standard Warranty at no cost from the date of Installation. • Annual Maintenance contract (AMC) should be quoted as option for 4th and 5th year after the warranty period. • Free technical support should be given in the warranty period when, required.
10	<p>निबंधन व शर्तें / Terms and Conditions: Failure to comply with any of the instructions stated in this document or offering unsatisfactory explanations for non-compliance will lead to rejection of offers.</p>
11	<p>स्वीकृति का अधिकार / Right of Acceptance: IIT Madras reserves the right to reject the whole or any part of the Tender without assigning any reason or to accept them in part or full.</p>
12	<p>स्वीकृति की सूचना / Communication of Acceptance: Letter of Intimation and acceptance will be communicated by email to the successful bidder to the address indicated in the bid.</p>
13	<p>All information including selection and rejection of technical or financial bids of the prospective bidders will be communicated through CPP portal. In terms of Rule 173 (iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids.</p>
14	<p>बोलीदाता को इस निविदा के साथ जमा करना होगा / Bidder shall submit along with this Tender: Name and full address of the Banker & their swift code, PAN No. and GSTIN number.</p>
15	<p>क्षेत्राधिकार / Jurisdiction: All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of tender is issued.</p>
16	<p>जुर्माना & परिसमापन क्षति / Penalty & Liquidated Damages / Force Majeure: If the selected Bidder fails to complete the due performance of the contract in accordance with the terms and conditions, Institute reserves the right either to cancel the contract or to accept performance already made by the selected Bidder after imposing Penalty on Selected Bidder. A penalty will be calculated on a per week basis and on the same Rate as applicable to Liquidated Damages (LD). In case of termination of the contract, Institute reserves the right to recover an amount equal to 5% of the Contract value as Liquidated Damages for non-performance.</p> <p>Both Penalty and Liquidated Damages are independent of each other and are applied separately and concurrently. Penalty and LD are not applicable for reasons attributable to the Institute and Force Majeure. However, it is the responsibility of the selected Bidder to prove that the delay is attributable to the Institute and Force Majeure. The selected Bidder shall submit the proof</p>

	authenticated by the Bidder and Institute's official that the delay is attributed to the Institute and/or Force Majeure along with the bills requesting payment.
17	All information including selection and rejection of technical or financial bids of the prospective bidders will be communicated through CPP portal. In terms of Rule 173(iv) of General Financial Rule 2017, the bidder shall be at liberty to question the bidding conditions, bidding process and/or rejection of bids.
18	The bidder shall certify that the tender document submitted by him / her are of the same replica of the tender document as published by IIT Madras and no corrections, additions and alterations made to the same. If any deviation is found in the same at any stage and date, the bid / contract will be rejected / terminated and actions will be initiated as per the terms and conditions of the contract / tender.
19	The bidder should study the Pre-Qualification Criteria, Bidder Eligibility Criteria, Technical Specification, Guidelines and Terms and Conditions in detail as given in Tender document before submitting the bid.
20	<p>I. Pre-Qualification Criteria:</p> <ol style="list-style-type: none"> 1. The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23rd July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24th August 2020. A declaration as per format given in Annexure – D shall be submitted with the bid. 2. Neither the tender participating firm nor any of its partners has been blacklisted / debarred /involved / convicted in any criminal case / economic offence nor any criminal case / economic offence is pending against firm or any partner of the Firm before any Court of Law / Police. A self-declaration format given in Annexure – E. 3. The bidder must have cumulative financial turnover at least Rs.66 Lakhs in the last three financial years i.e. 2020-2021, 2021-2022 and 2022-2023 (Financial statements / certificates duly certified by Chartered Accountant should be submitted as proof). 4. The bidder should have a service centre in Chennai for service support. Proof of service centre in Chennai should be furnished as documentary evidence (such as valid rental agreement/GST Certificate/ Certificate of incorporation etc.) 5. The bidder should have 10 years experience in supply of similar GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR (similar to the tendered item) and should have supplied the item to the reputed Institutions (like IIT,NIT and Central/State University/Central Research Labs)/ R&D Units in India as detailed below: <ol style="list-style-type: none"> i) Three (3) supplies of similar equipment *each costing not less than Rs.33 Lakhs (Or) ii) Two (2) supplies of similar equipment *each costing not less than Rs.50 Lakhs (Or) iii) One (1) supply of similar equipment *costing not less than Rs.66 Lakhs <p>Copies of the documents listed below should be submitted as a proof for the above supply:</p> <ol style="list-style-type: none"> i) Work Order / Purchase Order should be submitted and also the list of instruments supplied including contact details (name of the person-in-charge, email, and phone number) should be provided. ii) Work Completion Certificates with Performance Certificate from End User.
21	<p>बोलियों की संख्या और उनका प्रस्तुतीकरण / Number of Bids and their Submission:</p> <p>The bidders should submit the bids in two bid system as detailed below:</p> <p>Bid I Technical Bid</p> <p>The bidder should go through the Pre-Qualification Criteria and Technical Specification given in Annexure-A of the tender document, understand the requirement of IIT Madras</p>

	<p>and submit their technical bid along with all relevant document proof in the proforma given in Annexure–B.</p> <p>The technical bid should consist of proof of EMD transfer, Pre-Qualification Criteria and Technical Specification compliance sheet (proforma given in Annexure-B) along with all relevant documents proof.</p> <p>Bid II Financial Bid</p> <p>Financial bid should be submitted only in CPP Portal as per Proforma for Financial bid format given in Annexure (C). No manual or other form of submission of Financial bid will be entertained.</p> <p>The Quoted price should be for Supply, installation, transporting, Loading and unloading of the item and inclusive of all cost at IIT Madras.</p>
22	<p>बोलियों का मूल्यांकन Evaluation of Bids:</p> <p>Stage I: Technical Bid evaluation</p> <p>Technical Bid Evaluation will be done in two stages.</p> <ol style="list-style-type: none"> 1. In the 1st stage, Bidders will be evaluated first for conformity with Pre-Qualification Criteria and those bidders who have complied with Pre-Qualification criteria will alone be evaluated further. 2. In the 2nd stage, Technical Specification offered by the bidders will be evaluated by the Technical Committee for compliance. Only those bidders who have fully complied with Pre-Qualification Criteria and Technical Specification will be considered for Financial bid evaluation. <p>Stage II: Financial Bid Evaluation</p> <ul style="list-style-type: none"> • The Lowest financial bid among those who have qualified in the Technical bid will be declared as successful bidder (L1) and the order will be awarded to successful bidder (L1). Financial bid prices expressed in multi currency (USD / EUR) shall be converted to INR as per the prevailing RBI exchange rate on the date of opening of Financial bid. • Price quoted by the bidder in financial bid (BoQ) for SI.No.1 viz. SUPPLY OF GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR will alone be taken up for arrival of lowest bid (L1) values. SI.No.2 Optional item will not be taken for financial bid evaluation.
23	<p>'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein, shall be eligible to bid in this tender. Declaration for Class-I / Class-II local suppliers should be submitted in the prescribed proforma format as per Annexure – F.</p>
24	<p>सफल बोलीदाता का चयन और आदेश प्रदान करना / Selection of successful bidder and Award of Order</p> <p>The order will be directly awarded to the technically qualified bidder as per the condition in para 3A of DIPP, MoCI Order No. 45021/2/2017-PP (BE II) dated 16th September 2020 and other subsequent orders issued therein.</p>
25	<p>The bidders will not be entertained to participate in Opening of Bids, since the tender is online through CPP portal, the opening of the bids may be checked using the respective logins of the bidders.</p>
26	<p>In accordance to the Rule 173 of GFR, 2017 and relevant provisions thereof in Procurement Manuals, 2022, IITM reserves the right to carry out the negotiation process through its purchase/technical committee with L1/H1 (as applicable) vendor to ensure price reasonability before final recommendation to the Competent Authority. The negotiation details, if any, on case to case basis shall be recorded in minutes of meeting suitably for records.</p>

Sd/-
Assistant Registrar
Stores & Purchase

ACKNOWLEDGEMENT

It is hereby acknowledged that I/We have gone through all the points listed under “Pre-Qualification Criteria, Scope of Work, Technical Specification, Guidelines and Terms and Conditions” of tender document, the same is abided and agreed to be executed. In case, if the above information is found false, I/We are fully aware that the tender /order will be rejected / cancelled by IIT Madras.

**SIGNATURE OF BIDDER ALONG WITH
SEAL OF THE COMPANY WITH DATE**

SCHEDULE OF TENDER

SUPPLY OF GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR – 1 No. Tender No. IITM/SPS/ GC-MSFID/GTE/033/2023-24

Name of Organization	Indian Institute of Technology Madras
Tender Type (Open/Limited/EOI/Auction/Single)	OPEN
Tender Category (Services/Goods/Works)	Goods
Type/Form of Contract (Work/Supply/Auction/ Service/ Buy/ Empanelment/ Sell)	Supply
Name of the Tender	SUPPLY OF GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR
Source of Fund (Institute/Project)	IIT Madras
Is Multi Currency Allowed	Yes
Date of Issue/Publishing	29.02.2024
Document Download Start Date	29.02.2024
Document Download End Date	06.03.2024
Bid Submission Start Date	01.03.2024
Last Date and Time for Uploading of Bids	06.03.2024 @ 02.00 p.m.
Date and Time of Tender Opening	07.03.2024 @ 03.30 p.m.
No. of Covers (1/2/3/4)	2
Bid Validity days (180/120/90/60/30)	120 Days
Address for Communication	<p><u>For Technical Queries</u> Prof. Anbarasan Dept of Chemistry IIT Madras Chennai – 600 036 Phone No. 044 2257 4200 Email: anbarasansp@ee.iitm.ac.in</p> <p><u>For General Queries</u> The Assistant Registrar Stores & Purchase Section IIT Madras Chennai – 600 036 Phone No. 044 2257 8287/88/85/90 Email: adstores@iitm.ac.in</p>

TECHNICAL BID**GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR - No.1****Tender No. IITM/SPS/ GC-MSFID/GTE/033/2023-24****A. PRE-QUALIFICATION CRITERIA**

1. The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23rd July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24th August 2020. A declaration as per format given in **Annexure – D** shall be submitted with the bid.
2. Neither the tender participating firm nor any of its partners has been blacklisted / debarred /involved / convicted in any criminal case / economic offence nor any criminal case / economic offence is **pending** against firm or any partner of the Firm before any Court of Law / Police. A self-declaration format given in **Annexure – E**.
3. The bidder must have cumulative financial turnover at least Rs.66 Lakhs in the last three financial years i.e. 2020-2021, 2021-2022 and 2022-2023 (Financial statements / certificates duly certified by Chartered Accountant should be submitted as proof).
4. The bidder should have a service centre in Chennai for service support. Proof of service centre in Chennai should be furnished as documentary evidence (such as valid rental agreement/GST Certificate/ Certificate of incorporation etc.)
6. The bidder should have 10 years experience in supply of similar GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME INONIZATION DETECTED (similar to the tendered item) and should have supplied the item to the reputed Institutions (like IIT,NIT and Central/State University/Central Research Labs)/ R&D Units in India as detailed below:
 - i) Three (3) supplies of similar equipment *each costing not less than Rs.33 Lakhs
(Or)
 - ii) Two (2) supplies of similar equipment *each costing not less than Rs.50 Lakhs
(Or)
 - iii) One (1) supply of similar equipment *costing not less than Rs.66 Lakhs

Copies of the documents listed below should be submitted as a proof for the above supply:

- i. Work Order / Purchase Order should be submitted and also the list of instruments supplied including contact details (name of the person-in-charge, email, and phone number) should be provided.
- ii. Work Completion Certificates with Performance Certificate from End User.

B. TECHNICAL SPECIFICATIONS

Sl. No.	Technical Specifications	
II	GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR – No.1	
1	GC:	<ul style="list-style-type: none"> • Either Electronic Pneumatic Controller (EPC) or Pneumatic Pressure Controller (PPC) or Advanced Flow Controller (AFC) should provide optimum performance with all types of columns and detectors. • GC must have a color touchscreen display with Graphical User Interface (GUI). • Superior high speed GCMS system with easy access to Ion source for easy maintenance.
2	Column Oven:	<ul style="list-style-type: none"> • Operating Temp. Range: Ambient +5 (or better) to 450°C or more • The system should have user settable column over-heat protection. • Built-in oven power safety. • Oven volume: 13.7 L or more • Achievable Temp. Ramp rate: maximum 100°C/min or more • Programmable temperature ramps: Minimum of 20 ramps or above • Settable time for each step : 9999.99 min • Oven cool down time : 450 °C to 50 °C Within 3.5 Minutes or Better with optional cooling rate setting. • Temperature Set Point Resolution: 0.1°C or Better
3	Split/Splitless injector port – 1 No.s:	<ul style="list-style-type: none"> • Split/split less capillary inlet • Maximum temperature: 450 °C • Split ratio: 9900:1 or more • Pressure setting range 0–150 psi with control of 0.001psi for whole range • Carrier gas Flow Control should have Constant flow, constant pressure • Pressure program ramps: minimum 5 steps
4	Auto Injector:	<ul style="list-style-type: none"> • Automated liquid sampler with 100 Vials capacity or more • Should be able to inject sample volume 1 to 80% of syringe capacity • More than 2 solvent wash and waste vial capacity
5	Single Quadruple Mass Spectrometer:	<ul style="list-style-type: none"> • Ionization modes: EI & System should have a filament design with automatic switching. Dual filament is preferable • Ion Source temperature: up to 350°C • Electron energy range up to 100eV or better • Mass Range: 1.5 to 1000 amu or better. • Mass analyzer: Quadruple should be of solid metal, with pre rod / pre filters for matrix elimination • Vacuum pump: Dual inlet/stage Turbomolecular pump (>300 L/s) Ionization • Mass axis stability: ±0.1 amu over 48 hours • Mass resolution: Unit mass • Detector: Sealed long-life electron multiplier tube • Scan rate: 12,500 amu/s or better and should retain sensitivity for all higher scan rate acquisition.

		<ul style="list-style-type: none"> • EI Scan sensitivity: 1500:1 or better for 1pg of OFN for the mass m/z 272 using 30 m column
6	Database and Software:	<ul style="list-style-type: none"> • NIST 2023 library with license or latest at the time of supply, Library database in CD ROM should be provided. • Suitable software for performing data analyses, calibration, blank correction, data import, export, handling and reporting. • Must be able to review quantitative peak identification in a single environment that includes quantitation tables, calibration curves, raw spectra, background subtracted spectra, ratios plots etc., • Must have built-in reporting functionality to generate industry-standard reports with the ability to customize report templates as necessary. • Automatically create SIM from acquired Scan data and optimizing tool for SIM group creation with dwell time for better repeatability and peak profile. • Instrument acquisition, acquired data analysis and reporting should have been built based on the Retention indices through automated features.
7	Columns:	<ul style="list-style-type: none"> • DB-5Sil MS or equivalent, 0.25mm, 0.25um, 30m • Rt-Q-Bond 10 um, 0.32mm, 30 m + Guard column (0.32mm ID, 3m) • Shincarbon suitable for H₂, CO and CO₂ separation
8	Additional Oven:	<ul style="list-style-type: none"> • Separate or integrated Chromatographic oven should be similar to main oven for the separation for Hydrogen, CO, CO₂ to be included. • EPC/ PPC/AFC should provide optimum performance with all types of columns and detectors. • Suitable detectors like TCD, FID detectors to be included.
9	Detector - Flame Ionization Detector (FID):	<ul style="list-style-type: none"> • Minimum detection level should be around 1.2pgC/s for dodecane or equivalent compound. • Temperature range of up to 450°C • Able to automatically control up to 3 channels of gas, i.e. H₂, make-up and Zero grade Air. • Must have an acquisition time of 2ms (500Hz) or better • Must provide fast flame out detection and efficient automatic re-ignition • Dynamic range should be up to 10⁷
10	Detector – Thermal Conductivity Detector (TCD):	<ul style="list-style-type: none"> • Sensitivity (packed column) : > 40000 mV × mL/mg (decane) or Better • Max operating temperature : 350 °C or Better • Max acquisition rate : 2 ms (500 Hz) or Better • Dynamic range : 1 × 10⁵ or Better
11	Consumable:	<ul style="list-style-type: none"> • Septum for injector, GC-2030 (50 pcs) – 2 No.s • Deactivated Insert with wool for Split (Pack of 5) – 2 No.s • Deactivated Insert with wool for Splitless (Pack of 5) – 2 No.s • Capillary column ferrule set, 0.5mm (10pcs /pkt) - 1 No. • Vespel Ferrule GVF-16-004 (10pcs/set) - For 0.25mm ID Column - 1 No.

		<ul style="list-style-type: none"> • Vespel Ferrule GVF-16-005 (10pcs/set) - For 0.32mm ID Column 1 No. • Column Nut, (5 pcs/pkt) - 2 No.s • Inert Quartz Wool, 2gm - 1 No. • Vacuum pump oil Oil R-2, 1L - 1 No. • Oil mist trap - 1 No. • Filter element - 1 No. • Manual gas sampling valve • Gas-tight syringe- 5 Nos.
12	PC & Printer:	<ul style="list-style-type: none"> • Suitable Branded PC with SSD hard drive with licensed windows operating system should be supplied for instrument control/data analysis software and laser printer.
13	Accessories Required:	<ul style="list-style-type: none"> • Gas cylinders for He (5.5 grade), N₂, Hydrogen and Zero grade Air gas should be provided • Two stage Cylinder Regulator with Brass Chrome plated body with S.S. Diaphragm for Carrier gas and Collision gas, should be included • Suitable Gas Purification & Control Panel with pressure Regulator for Carrier gas and Collision gas should be provided • 10KVA UPS (with isolation transformer)system with 60 mins backup with suitable earthing should be provided

PROFORMA FOR TECHNICAL BID

GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR – 1 No.

Tender No. IITM/SPS/ GC-MSFID/GTE/033/2023-24

A. PRE QUALIFICATION CRITERIA :

Sl. No.	Description	Compliance (Yes / No)	Reference Page No.
I	PRE-QUALIFICATION CRITERIA		
1	The bidder shall not be from a country sharing land border with India and if the bidder is from a country sharing land border with India the bidder should have been registered with the competent authority as per orders of DIPP OM No. F. No. 6/18/2019-PPD dated 23rd July 2020, and MoCI Order No. P-45021/112/2020-PP (BE II) (E-43780) dated 24th August 2020. A declaration as per format given in Annexure – D shall be submitted with the bid.		
2	Neither the tender participating firm nor any of its partners has been blacklisted / debarred /involved / convicted in any criminal case / economic offence nor any criminal case / economic offence is pending against firm or any partner of the Firm before any Court of Law / Police. A self-declaration format given in Annexure – E .		
3	The bidder must have cumulative financial turnover at least Rs.66 Lakhs in the last three financial years i.e. 2020-2021, 2021-2022 and 2022-2023 (Financial statements / certificates duly certified by Chartered Accountant should be submitted as proof).		
4	The bidder should have a service centre in Chennai for service support. Proof of service centre in Chennai should be furnished as documentary evidence (such as valid rental agreement/GST Certificate/ Certificate of incorporation etc.)		
5	<p>The bidder should have 10 years experience in supply of similar GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR (similar to the tendered item) and should have supplied the item to the reputed Institutions (like IIT,NIT and Central/State University/Central Research Labs)/ R&D Units in India as detailed below:</p> <p style="padding-left: 40px;">i) Three (3) supplies of similar equipment *each costing not less than Rs.33 Lakhs</p> <p style="text-align: center;">(Or)</p> <p style="padding-left: 40px;">ii) Two (2) supplies of similar equipment *each costing not less than Rs.50 Lakhs</p> <p style="text-align: center;">(Or)</p> <p style="padding-left: 40px;">iii) One (1) supply of similar equipment *costing not less than Rs.66 Lakhs</p> <p>Copies of the documents listed below should be submitted as a proof for the above supply:</p> <p style="padding-left: 40px;">i. Work / Purchase Order should be submitted and also the list of instruments supplied including contact details (name of the person-in-charge, email, and phone number) should be provided.</p> <p style="padding-left: 40px;">ii. Work Completion Certificates with Performance Certificate from End User</p>		

B. TECHNICAL SPECIFICATIONS:

Sl. No.	Technical Specifications	Compliance (Yes / No)	Reference Page No.
II	GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR – No.1	II	
1	GC:	<ul style="list-style-type: none"> • Either Electronic Pneumatic Controller (EPC) or Pneumatic Pressure Controller (PPC) or Advanced Flow Controller (AFC) should provide optimum performance with all types of columns and detectors. • GC must have a color touchscreen display with Graphical User Interface (GUI). • Superior high speed GCMS system with easy access to Ion source for easy maintenance. 	
2	Column Oven:	<ul style="list-style-type: none"> • Operating Temp. Range: Ambient +5 (or better) to 450°C or more • The system should have user settable column over-heat protection. • Built-in oven power safety. • Oven volume: 13.7 L or more • Achievable Temp. Ramp rate: maximum 100°C/min or more • Programmable temperature ramps: Minimum of 20 ramps or above • Settable time for each step : 9999.99 min • Oven cool down time : 450 °C to 50 °C Within 3.5 Minutes or Better with optional cooling rate setting. • Temperature Set Point Resolution: 0.1°C or Better 	
3	Split/Splitless injector port – 1 No.s:	<ul style="list-style-type: none"> • Split/split less capillary inlet • Maximum temperature: 450 °C • Split ratio: 9900:1 or more • Pressure setting range 0–150 psi with control of 0.001psi for whole range • Carrier gas Flow Control should have Constant flow, constant pressure • Pressure program ramps: minimum 5 steps 	
4	Auto Injector:	<ul style="list-style-type: none"> • Automated liquid sampler with 100 Vials capacity or more • Should be able to inject sample volume 1 to 80% of syringe capacity • More than 2 solvent wash and waste vial capacity 	
5	Single Quadruple Mass Spectrometer:	<ul style="list-style-type: none"> • Ionization modes: EI & System should have a filament design with automatic switching. Dual filament is preferable • Ion Source temperature: up to 350°C • Electron energy range up to 100eV or better • Mass Range: 1.5 to 1000 amu or better. • Mass analyzer: Quadruple should be of solid metal, with pre rod / pre filters for matrix elimination • Vacuum pump: Dual inlet/stage Turbomolecular pump (>300 L/s) Ionization • Mass axis stability: ±0.1 amu over 48 hours • Mass resolution: Unit mass • Detector: Sealed long-life electron multiplier tube 	

		<ul style="list-style-type: none"> • Scan rate: 12,500 amu/s or better and should retain sensitivity for all higher scan rate acquisition. • EI Scan sensitivity: 1500:1 or better for 1pg of OFN for the mass m/z 272 using 30 m column 		
6	Database and Software:	<ul style="list-style-type: none"> • NIST 2023 library with license or latest at the time of supply, Library database in CD ROM should be provided. • Suitable software for performing data analyses, calibration, blank correction, data import, export, handling and reporting. • Must be able to review quantitative peak identification in a single environment that includes quantitation tables, calibration curves, raw spectra, background subtracted spectra, ratios plots etc., • Must have built-in reporting functionality to generate industry-standard reports with the ability to customize report templates as necessary. • Automatically create SIM from acquired Scan data and optimizing tool for SIM group creation with dwell time for better repeatability and peak profile. • Instrument acquisition, acquired data analysis and reporting should have been built based on the Retention indices through automated features. 		
7	Columns:	<ul style="list-style-type: none"> • DB-5Sil MS or equivalent, 0.25mm, 0.25um, 30m • Rt-Q-Bond 10 um, 0.32mm, 30 m + Guard column (0.32mm ID, 3m) Shincarbon suitable for H₂, CO and CO₂ separation 		
8	Additional Oven :	<ul style="list-style-type: none"> • Separate or integrated Chromatographic oven should be similar to main oven for the separation for Hydrogen, CO, CO₂ to be included. • EPC/ PPC/AFC should provide optimum performance with all types of columns and detectors. Suitable detectors like TCD, FID detectors to be included. 		
9	Detector - Flame Ionization Detector (FID):	<ul style="list-style-type: none"> • Minimum detection level should be around 1.2pgC/s for dodecane or equivalent compound. • Temperature range of up to 450°C • Able to automatically control up to 3 channels of gas, i.e. H₂, make-up and Zero grade Air. • Must have an acquisition time of 2ms (500Hz) or better • Must provide fast flame out detection and efficient automatic re-ignition • Dynamic range should be up to 10⁷ 		
10	Detector – Thermal Conductivity Detector (TCD):	<ul style="list-style-type: none"> • Sensitivity (packed column) : > 40000 mV × mL/mg (decane) or Better • Max operating temperature : 350 °C or Better • Max acquisition rate : 2 ms (500 Hz) or Better • Dynamic range : 1 × 10⁵ or Better 		

11	Consumable:	<ul style="list-style-type: none"> • Septum for injector, GC-2030 (50 pcs) – 2 No.s • Deactivated Insert with wool for Split (Pack of 5) – 2 No.s • Deactivated Insert with wool for Splitless (Pack of 5) – 2 No.s • Capillary column ferrule set, 0.5mm (10pcs /pkt) - 1 No. • Vespel Ferrule GVF-16-004 (10pcs/set) - For 0.25mm ID Column - 1 No. • Vespel Ferrule GVF-16-005 (10pcs/set) - For 0.32mm ID Column 1 No. • Column Nut, (5 pcs/pkt) - 2 No.s • Inert Quartz Wool, 2gm - 1 No. • Vacuum pump oil Oil R-2, 1L - 1 No. • Oil mist trap - 1 No. • Filter element - 1 No. • Manual gas sampling valve • Gas-tight syringe- 5 Nos. 		
12	PC & Printer:	<ul style="list-style-type: none"> • Suitable Branded PC with SSD hard drive with licensed windows operating system should be supplied for instrument control/data analysis software and laser printer. 		
13	Accessories Required:	<ul style="list-style-type: none"> • Gas cylinders for He (5.5 grade), N₂, Hydrogen and Zero grade Air gas should be provided • Two stage Cylinder Regulator with Brass Chrome plated body with S.S. Diaphragm for Carrier gas and Collision gas, should be included • Suitable Gas Purification & Control Panel with pressure Regulator for Carrier gas and Collision gas should be provided • 10KVA UPS (with isolation transformer)system with 60 mins backup with suitable earthing should be provided. 		

****Reference page number is mandatory and should be mentioned in the technical compliance***

Place:
Date:

Signature of the bidder
Name & Address of the
Bidder with Office Stamp

PROFORMA FOR FINANCIAL BID (BOQ)

GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR – 1 No.
Tender No. IITM/SPS/ GC-MSFID/GTE/033/2023-24

Sl.No.	Detailed Description as per Annexure-B	Unit	Qty	Quoted Currency in INR/USD/EUR	Unit Rate in Figures, to be entered by the Bidder in INR (or) Ex-works rate for USD / EUR	GST/CIP Chennai charges	Total Amount Incl. of GST / CIP Chennai Charges*
					(A)	(B)	
1	SUPPLY OF GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR as per technical specification in Annexure-A	No.	1	INR/USD/ EUR		ENTER AND SUBMIT THE FINANCIAL BID IN THE CPP PORTAL	
2	Optional AMC of the equipment for a period of 2 years after the standard warranty						
	a. 4 th Year						
	b. 5 th Year						
	Total Cost inclusive of all*						

NOTE:

- The prices quoted by the bidders should be inclusive of Training, Installation, Transportation, GST and other charges.
- The financial bid evaluation will be based on price quoted by the bidder in financial bid (BoQ) for SI.No.1 viz. SUPPLY OF GC-MS with FID will alone be taken up for arrival of lowest bid (L1) values. SI.No.2 Optional item will not be taken for financial bid evaluation.

Place:
Date:

Signature of the bidder
Name & Address of the
Bidder with Office Stamp

(To be given on the letter head of the bidder)

Tender No. IITM/SPS/ GC-MSFID/GTE/033/2023-24

Dated: _____

CERTIFICATE

(Bidders from India)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am not from such a country.

(OR)

(Bidders from Country which shares a land border with India)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby certify that I am from _____ (Name of Country) and have registered with the Competent Authority. I also certify that I fulfil all the requirements in this regard and am eligible to be considered. *(Copy/ evidence of valid registration by the Competent Authority is to be attached)*

Place:

Date:

**Signature of the bidder
Name & Address of the
Bidder with Office Stamp**

(To be given on the letter head of the bidder)

Self-Declaration that the Service Provider has not been Black listed

I S/o
.....

R/o police station District
Director

/ partner/ sole proprietor (Strike out whichever is not applicable) of
.....

..... (Firm or Company) do hereby declare and solemnly affirm:

- I. That the Firm has not been Blacklisted or declared insolvent by any of the Union or State Government / Organization.
- II. That none of the individual / firm / Company Blacklisted or any partners or shareholder thereof has any connection directly or indirectly with or has any subsistence interest in the deponent business / firm company.
- III. That neither the Firm nor any of its partner has been involved / convicted in any criminal case / economic offence nor any criminal case / economic offence is pending against firm or any partner of the Firm before any Court of Law / Police.

Place:
Date:

**Signature of the bidder
Name & Address of the
Bidder with Office Stamp**

**FORMAT FOR AFFIDAVIT OF SELF-CERTIFICATION UNDER PUBLIC PROCUREMENT POLICY
(PREFERENCE TO MAKE IN INDIA) 2017**

Tender Reference Number: Tender No. IITM/SPS/ GC-MSFID/GTE/033/2023-24

Name of the item / Service: SUPPLY OF GAS CHROMATOGRAPHY MASS SPECTROMETRY WITH FLAME IONIZATION DETECTOR – No.1

Date: _____

I/We _____ S/o, D/o, W/o,

Resident of

_____ hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Policy vide Gol Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020) MOCI order No. 45021/2/2017-PP (BE II) Dt.16th September 2020 & P- 45021/102/2019-BE-II-Part(1) (E-50310) Dt.4th March 2021 and any subsequent modifications/Amendments, if any and

That the local content for all inputs which constitute the said item/service/work has been verified by me and I am responsible for the correctness of the claims made therein.

Tick (✓) and Fill the Appropriate Category	
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to or more than 50% and come under “Class-I Local Supplier” category.
<input type="checkbox"/>	I/We _____ [name of the supplier] hereby confirm in respect of quoted items that Local Content is equal to 20% but less than 50% and come under “Class-II Local Supplier” category.
<input type="checkbox"/>	I/We _____ [name of the manufacturer] hereby confirm in respect of quoted items that Local Content is less than 20% come under ‘Non – Local Supplier’ category

- The details of the location (s) at which the local value addition is made and the proportionate value of local content in percentage

Address _____ Percentage of Local content: _____ %

For and on behalf of.....(Name of firm/entity)

Authorized signatory (To be duly authorized by the Board of Directors)

<Insert Name, Designation and Contact No.>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

This letter should be on the letterhead of the quoting firm and should be signed by a competent authority.

**** Services such as transportation, insurance, installation, commissioning, and training and after sales service support like AMC/CMC cannot be claimed as local value addition.**