

INDIAN INSTITUTE OF TECHNOLOGY MAORAS

Chennai 600036



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V.Sathyannarayanan

Ref: CHY/ARNA/013/2017

Senior Manager (Project Purchase)

Dated: 30.06.2017

**Open Tender for supply of "Gas Chromatograph Mass Spectrometer"  
Tender No: CHY/ARNA/013/2017**

**Due Date: 24.07.2017, 2:30p.m**  
Technical Bid opening on 24.07.2017 at 4.30p.m

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of **Gas Chromatograph Mass Spectrometer (CHY/ARNA/013/2017)** conforming to the specifications given in (Annexure-I):

**Instructions to the Bidder**

**(i) Preparation of Bids:** - The tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.

**(ii) Delivery of the tender:** - The tender shall be sent to the below-mentioned address either by post or by courier so as to reach the following address before the due date and time specified in the Schedule: **Senior Manager, Project Purchase, 2nd floor, IC & SR Building, I.I.T. Madras-600036.**

**(iii) Opening of the tender:** - The offer/Bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. In respect of opening the financial bid, those bidders who are technically qualified only will be called for.

**(iv) Prices:** - The price should be quoted in nett per unit (after breakup) and must include all packing and delivery charges to various Departments/Centres/Institutions. The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately.

The price should be quoted without custom duty (and excise duty). I.I.T. Madras is exempt from payment of (excise duty),and eligible for concessional custom duty.  
In case of import supply, the price should be quoted on **EX-WORKS** and **CIP** basis indicating the mode of shipment.

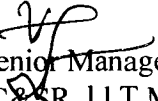
**(v) Agency Commission:** - Agency commission, if any, will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate about the percentage of payment and it should be included in the originally quoted basic price, if any.

**(vi) Terms of Delivery:** - The item should be supplied to our Departments as per Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.

**(vii) Technical Bid Opening:** The technical bid will be opened on 24/07/2017 at 4:30 pm at the Faculty meeting room, Department of Chemistry, IIT Madras and the financial bids of technically qualified tenders will be opened at a later date under intimation to them.

**IIT Madras reserves the full right to accept / reject any tender at stage without assigning any reason.**

Your sincerely,

  
Senior Manager (Project Purchase)  
IC&SR, I.I.T. Madras

वरिष्ठ प्रबन्धक (परियोजना क्रय)  
SENIOR MANAGER (PROJECT PURCHASE)  
आईसी एवं एसआर केन्द्र / Centre for IC & SR  
आईआईटी मद्रास/I.I.T.MADRAS-600036

## SCHEDULE

### Important Conditions of the tender

1. The due date for the submission of the tender is **24.07.2017, 2:30 pm**.  
The offers / bids should be submitted in two bids system (i.e.) Technical bid and Financial bid. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and Financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The Tender for supply of "**Gas Chromatograph Mass Spectrometer**" should be written on the left side of the Outer bigger cover and sealed.
2. **EMD:** -EMD should be at 2% (two percent) of the tender value quoted by the bidder. The EMD should be included in the Financial bid which will not be opened for Technical evaluation. Enclosing the EMD in the Technical bid will automatically disqualify the tenderer. EMD should be in the form of DD in favour of "The Registrar, Indian Institute of Technology Madras" and payable at Chennai. The tender without EMD would be considered as UNRESPONSIVE and REJECTED. Photo/FAX copies of the Demand Draft/Banker's pay orders will not be accepted. No interest will be paid for the EMD and the EMD (Bid Security) will be refunded to the successful bidder on receipt of Performance Security. EMD is exempted for Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) or registered with the Central Purchase Organisation or with IITMadras.
3. **Performance Security:**-The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply within 21 days from the issue of work/purchase order. The Performance Security should be furnished in the form of an Account Payee DD / FD Receipt from the commercial bank (or) Bank Guarantee from any nationalized bank in India.

**Performance Security in the form of Bank Guarantee:-** In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed through the Beneficiary Bank to the end user bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee from a Nationalized Bank of India.

The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.

4. **Indian agent:-** If an Indian agent is involved, the following documents must be enclosed:  
Foreign principal's proforma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent.  
Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.  
The enlistment of the Indian agent with Director General of Supplies & Disposals under the Compulsory Registration Scheme of Ministry of Finance.

5. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted. [The bidder should have supplied at least five instruments to renowned research/academic institute in India].
6. **Original catalogue** (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid. No prices should ever be included in the Technical bid.
7. Documentary proof for the claimed position and repetition accuracies must be obtained from the principals and submitted along with the relevant pages of the standards.
8. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
9. **Validity:** Validity of Quotation should not be less than 90 days from the due date of tender.
10. **Delivery Schedule:-** The tenderer should indicate clearly the time required for delivery of the item. In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
11. **Risk Purchase Clause:-** In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
12. **Payment:-** No Advance payment will be made for Indigenous purchase. However 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
13. **Advance Payment:-**No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Foreign Vendor has to submit a Bank Guarantee equal to the amount of advance payment and it should be routed through the Beneficiary Bank to the end user Bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee through a Nationalized Bank of India.
14. **On-site Installation:** - The equipment or machinery has to be installed or commissioned by the successful bidder within 15 to 20 days from the date of receipt of the item at site of IIT Madras. Installation should be done by the successful bidder at free of cost.
15. **Warranty/Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately.

(for more details please refer our Technical Specifications). At least one year warranty from the date of installation.

16. **Late offer:** - The offers received after the due date and time will not be considered. The Institute shall not be responsible for the late receipt of Tender on account of Postal, Courier or any other delay.
17. **Acceptance and Rejection:** - I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
18. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**
19. **Disputes and Jurisdiction:** -

**Settlement of Disputes:** Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate one arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceedings shall be carried out in English language. The cost of arbitration and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai..

- a. **The Applicable Law:** This Purchase Order shall be construed, interpreted and governed by the Laws of India, Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
- b. Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.

**20.All Amendments, time extension, clarifications etc., will be uploaded on the website only and will not be published in newspapers. Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/ time shall be considered on account of delay in receipt of any document by mail.**

**Acknowledgement:-** It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

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

## Annexure -I

### DEPARTMENT OF CHEMISTRY

Indian Institute of Technology Madras, Chennai – 600036.

Telephone No. 2257-4205, Fax No. 22574202.

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### SPECIFICATIONS FOR Gas Chromatograph Mass Spectrometer

#### INSTRUMENT SPECIFICATIONS:

Gas Chromatograph system to be coupled with solid, metallic quadrupole based mass chromatographic system with Electron Impact (EI) ionization module.

GC-main frame with Split / Splitless Injection port with EPC/AFC/PPC with Fast GC capability.

It should have minimum 9 ramps & 10 Plateau for temperature programming purpose.

Carrier gas head pressure setting should be more than 950 kPa provision for installing wide-bore and micro-bore columns (i.e., >140 psi column head pressure or better to accommodate 0.1 mm column to 0.53 mm capillary column).

High power column oven cooling should with reverse manner within 3.5 mins or less (without any insertion or modification of GC Oven).

Mass Range 10 m/z to 1050 m/z or **better**.

Resolution of  $R > 2M$  / Unit Mass Resolution.

Scan rate should be of minimum 20,000 amu /sec.

Differential evacuation system with TMP vacuum pump of 300 L/sec. Preference will be given to higher capacity TMP to get maximum sensitivity and flow rates of 15 ml/min or more for the use of wide bore columns.

Quadruple Analyzers should be of solid metal and rugged type. The cleaning of pre-rods or pre-filters should be easy and can be easily done by user.

EI Performance Scan Sensitivity S/N Ratio > 1500 for 1 pg OFN m/z 272. Higher S/N ratio will be preferred as a performance check out of the mass chromatograph.

System should have fast GC-MS facility to enhance productivity.

Auto- sampler vial capacity of more than 12 vials would be preferred.

AFC/APC/EPC controlled two way splitter should be provided.

Latest version of library database (NIST 2014) to be offered in CD-ROM with original license copy only.

**Flame Ionization Detector (FID) should be provided which can be coupled with the Gas chromatographic system.**

#### **Accessories**

High quality He, H<sub>2</sub>, N<sub>2</sub> & Zero Air gas cylinder along with compatible regulator for operating Single Quadrupole GC-MS, gas purification panel for the above mentioned four gases, tubings, capillary columns for Organic compound analysis, a good quality Printer, Branded 7.5 KVA UPS with 60 minutes Backup.

A compatible computer (optional).

Minimum two years of warranty should be offered for the complete GC-MS System and the **Flame Ionization Detector (FID)**.

**Training:** Onsite training, minimum for a 2-3 days at site, must be given.

**Local service is mandatory.**