



INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH
THIRUVANANTHAPURAM (IISERTVM)
(Govt. of India, Ministry of H.R.D)

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KERALA, INDIA.

Date: 20/11/2017

INVITATION TO TENDER
No: IISER/PUR/0911/MMS/SP/17-18
Due Date: 05th December 2017 [4PM]
Date of Opening: 06th December 2017 [3PM]

Dear Sirs,

SUB: Supply of Gas Chromatograph.

We invite Sealed Tenders for the following items:

Sl.No	Description	Qty
1	Gas Chromatograph Specifications as per annexure I	1 No

Please quote your lowest rate and shortest delivery period as per the following terms. Your offer in sealed cover **SUPERSCRIBING TENDER NUMBER AND DUE DATE** shall reach us on or before the due date and time.

- EMD** Rs.29,000/- should be paid through State Bank Collect- Tender No & Company Name must be mentioned in the Remarks column. Quotes should accompany a copy of Transaction slip /Print out **OR** Bank guarantee equivalent to the EMD value with validity 90 days **OR** Bidders should submit an undertaking in their letter head as per clause 12 of Instructions to Tenders (Imports).
- Payment** : Within 30 days after supply and installation/Net 30 days /LC **No advance payment will be made by IISERTVM.**
- Delivery** : To be delivered at our vithura campus (Free delivery). If import, mention Ex-works/FCA/CIP terms with clear breakup charges.
- Taxes & Duties** : Indicate taxes and duties. We are exempted for customs duty under 51/96 notification and Excise duty under 10/97 notifications.
- Discount** : Indicate, if any.
- Delivery Schedule** : Required Immediately. Indicate your schedule
- Validity of quote** : 60 days

Thanking You,

- Please see the rear side for other Terms & Conditions
Please visit the following websites for more information
1. www.iisertvm.ac.in
2. <https://www.eprocure.gov.in/epublish>

Yours Faithfully


Deputy Registrar (I/C)
Purchase & Stores

P.S. CATALOGUE/LEAFLET FEATURING ALL TECHNICAL SPECS/INFORMATION OF THE PRODUCT QUOTED SHALL ACCOMPANY THE OFFER.
OUR PREVIOUS TENDER OF EVEN NO. DATED 26/09/2017 STANDS CANCELLED AND THIS IS A RETENDER WITH SAME SPECIFICATIONS

IISER-TVM

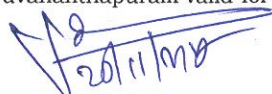
INSTRUCTION TO TENDERERS [IMPORTS]:

- PRICE:** The price quoted shall be firm. The terms of FOB/EXW/FCA/CIF/CIP etc shall be clearly mentioned.
- AGENT & AGENCY COMMISSION:** In case Tenderer is represented by any agent in India, their name and address shall be furnished. The amount of commission included in the price shall be clearly shown in the offer; which will be paid directly to the Indian Agents by purchaser in equivalent Indian Rupees. In case Indian agents existing and their agency commission is not shown in the Tender, reasons for the same shall be clearly mentioned in Tender. Details of Indian agent's statutory registration shall be stated. If Agency Commission is paid by Principals in foreign currency, the reasons for the same and exemption from Enforcement Directorate in India shall also be provided.
- LEAFLET/CATALOGUE:** Tenderer should furnish all necessary leaflet/catalogue etc., of the stores offered by him to enable the Purchaser to evaluate his offer correctly.
- MODE OF DESPATCH:** Tenderer shall indicate the mode of dispatch (i.e., Sea/Air-freight/Parcel Post, etc.) depending upon the normal mode of dispatch adopted by him for the type of stores offered for consideration of the Purchaser.
- COUNTRY OF ORIGIN:** Tenderer shall indicate in his offer the country of origin of goods offered and the name and address of the manufacture.
- INSURANCE:** If insurance of the goods is felt necessary, the same shall be advised by the Tenderer in the offer.
- DELIVERY/SHIPMENT:** The time for and date of delivery quoted shall be reasonable/realistic and shall strictly be adhered to in case of placing order on the Tenderer.
- MODE AND TERMS OF PAYMENT:** Payment in full (excluding the amount of Agency Commission included in the price payable directly by the Purchaser to the Indian Agents in Indian Rupees) will be made immediately on presentation of the prescribed documents against SIGHT DRAFT or LETTER OF CREDIT or WIRE TRANSFER against shipping documents. **OURS BEING A GOVT OF INDIA EDUCATIONAL INSTITUTE WE ARE UNABLE TO MAKE ANY ADVANCE PAYMENT**
- WARRANTY:** Period of warranty and conditions shall be clearly mentioned in the Tender.
- GENERAL:** The Tenderer shall also be complied with the following:
 - Mention your Banker's name and address.
 - Show approximate net and gross weight and dimensions of packages/ cases. If dimensional details are available the same should also be indicated in your offer.
 - Furnish list of recommended spares for satisfactory operation for a minimum period of one year if the quote is for Plant & Machinery, Equipments etc.
 - Details of any technical service, if required for erection assembly, commissioning and demonstration.
 - Conform that the prices quoted are inclusive of all taxes, levies, duties arising in the tenderer's country.
 - Samples, if called for, will be sent free of all charges.
 - Late tenders and Delayed will not be considered.
 - Offers made by Indian Agents on behalf of their Principals, should be supported by the Proforma Invoice of their Principals.
 - The authority of person signing the tender, if called for, shall be produced.
 - The purchaser reserves the right to accept or reject the lowest or any other offer in whole or in part without assessing any reason.
- Tender Opening:** All tenders will be opened at **Indoor Stadium, Vithura Campus**. Authorized representatives with authorization letters of the bidders may attend the Tender Opening.
- As per GFR 2017 clause 170 (III) Bidders who fail to pay the Earnest money deposit has to mandatorily sign a bid securing undertaking that if the bidder withdraw or modify the Bids during the period of validity, or if the bidder is awarded with the contract and they fail to sign the contract, or to submit a Performance security before the deadline defined in the request for bids document, they will be suspended for the period of time decided by the institute.**

INSTRUCTION TO TENDERERS [INDIGENOUS]

- Tenders should be sent in sealed envelopes superscribing the relevant tender no. and the due date of opening. Only one tender should be sent in each envelope.
- Sales Tax and /or other duties/levies where legally levies and intended to be claimed should be distinctly shown separately in the tender.
- Your quotation should be valid for a minimum period of 90 days from the date of opening of the Tender. Quotation with firm prices will be preferred.
 - Prices are required to be quoted according to the units indicated in the Invitation to Tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
- Preference will be given to those tenders offering supplies from ready stocks. The basis of delivery is at IISER site free of cost.**
 - Our payment terms are within 30 days of receipt and acceptance of the item at our site.**
- All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.

Specifications: Stores offered should strictly conform to our specifications. Deviations, if any should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary along with the quotations. Test Certificates wherever necessary should be forwarded along with supplies. Whenever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate reasons for the same.
- IISER shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted.
- Corrections, if any, in the Quotation must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Quotation must have price for each line item and totaling of the price including taxes and duties should be clearly mentioned.
- The tenderer should mention the name of his bankers, Sales Tax Registration, PAN number etc in the tender.
- The authority of the person signing the tender, if called for, should be produced.
- IISER being a Govt of India Educational and Research Institute, is exempted from payment of Excise Duty under Notification No. 10/97 and Customs Duty under Notification No. 51/96- Customs dated 23rd July 2009. Also, we can issue Form 16 as per VAT Rules.
- The stores supplied should be covered with minimum of 1 year warranty from the date of supply, installation and commissioning.
- Earnest Money Deposit/ Bid Security should be submitted along with your quote as mentioned in Invitation for Tender. EMD should be in favour of Indian Institute of Science Education and Research Thiruvananthapuram valid for 90 days.


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Annexure-I

Gas chromatograph

Microprocessor controlled Gas chromatograph with FID and TCD detector suitable for analysis of gaseous samples.

The offered Gas chromatograph should be upgradable for doing liquid samples, auto injector, and capillary applications.

Details of manufacturer, country of manufacturing and the specification is to be provided with the technical quote. If any deviation quoted for the instrument with respect to the manufacturer specification sheet, offer will not be considered.

All items except the column shall be provided from the same manufacturer origin. GC should be compatible with any packed columns from same or other manufactures.

Specifications

Column oven specifications:

Dimensions - 248 W x 358 H x 172 D mm or better

Oven volume capacity - 15 L or better

Oven Temperature range: Ambient + 10°C to 400°C

-50°C to 400°C (when using liquid carbon dioxide gas)

Oven Temperature accuracy: ±1% of set value (K) (0.01°C calibration possible)

Oven Temperature variance: 2°C or less (measured on 200 mm diameter circumference, 30 mm from rear, with oven at 250°C) (with INJ and DET temperatures set to 250°C)

Oven Room temperature dependence 0.01 °C/°C

Oven Program steps: 20 steps (For cooling also)

Program rate setting range: -250 to 250°C/min

Total time for all steps up to 9999.99 minutes

Cooling rate- 300°C to 50°C in 6 min or less

Capacity of columns - Two packed columns

Oven should be capable of mounting 3 injector and 4 detector as maximum configuration.

Packed Sample injector

Temperature range: up to 400°C

Temperature settings: 1°C steps

Injector unit types: Dual packed injector

Dual flow controller for Carrier gas flow should have following controls

Flow rate setting range: 0 - 100 mL/min

Programs steps -7 steps

Program rate setting range - -300 to 300 mL/min or better

column flow rate should be maintained automatically when increasing temperature

Electronic Flow controller should control for 3 gases i.e. H₂, make-up gas and air flows (with electronic ON/OFF): Air: 0 - 1200ml/min, H₂ : 0 - 100ml/min, make-up gases (N₂ or He) : 0 - 1200ml/min



Detectors:

Flame Ionization Detector (FID)

Dual flow rate differential system

The detector should be capable of detection of trace amount of compounds with sensitivity less than 3.0 pgC/s

Temperature range : up to 400°C

Dynamic range should be at least 10⁷.

Must provide fast flame out detection and efficient automatic re-ignition.

The acquisition rate must be at least 250 Hz.

Packed column nozzle for FID

Temperature controller types include single temperature control and dual temperature control

Thermal Conductivity Detector

Dual flow rate differential system

Temperature range: up to 400 °C.

Data acquisition rates: 250 Hz

Minimum detected quantity: 40000 mV.mL/mg (decane)

Dynamic range: >10⁵

Dimension and Weight to be specified for the quoted model

GC itself must have a large LCD display: 240 x 320 dots graphics, 30 characters, 16 lines; with Graphical User Interface (GUI).

Counter for Septum, glass liner, injections etc .

There should be facility to download method and set parameters in standalone operation.

Chromatography instrument control and data acquisition software System

Original Chromatography software from the same manufacturer should be provided for Data acquisition and control of the instrument.

The software package should allow for the complete control of the GC. Method development and automation, data acquisition, data analysis, generation of custom reports, etc.

Should have snapshot function, supports single analysis and batch analysis, Batch Table Wizard, add or insert analyses, Supports extended analysis time, automatic time, automatic data file creation

QA/QC (statistical) functions, batch auto-stop function, run user program

function, supports pre-run programs, OLE automation compatibility (Batch analysis, etc).

Must have report items - sample information, environment settings, methods, chromatograms, peak tables, calibration curves, grouping results, diagrams, text, etc.), OLE object compatibility, layout customization and preview functions, summary report.

Must allow clock-time programming with the ability to automatically start/stop a GC at the user-specified scheduled time.

Must be capable of performing detector auto-ranging.

System check (GC self-diagnosis), status log must be available to allow continuous

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monitoring of GC in real-time to alert user maintenance needs and instrument problems.

Catalytic convertor attachment for CO and CO₂

Packed columns for separation of Hydrogen, Methane, CO and CO₂ along with gas tight syringe (1 mL and 250 μ L each) to be provided.

Septas, packed column connection accessories, 6 port gas sampling port with standard 1 mL loop necessary for operation should be quoted.

Optional Items

Desktop with i-5 Processor, 4GB RAM,
1 TB HDD, Windows 7 home basic,
DVDR/W, LED screen (19 inch or above).

Laserjet Printer

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