

INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

Ground Floor, Block "A", Vishwakarma Government Engineering College Campus

Visat-Gandhinagar Highway, Chandkheda, Ahmedabad-382424. Tel/Fax No. +91 79 2397 2583

Website: - www.iitgn.ac.in

Date: 1st February, 2013

Tender No.: IITGN/201213-05-DST/ME/EQP/2012-13/025

Last date: 21st February, 2013 on/before 05:00 PM

SUB: Invitation of sealed tender for Supply of "Gas Chromatograph" as per details & specifications shown in the Annexure-I".

Dear Sir,

Indian Institute of Technology Gandhinagar invites sealed tender for **Supply of "Gas Chromatograph" as per details & specifications shown in the Annexure-I** on the following terms & conditions:

1. If the supplier/firm is manufacturer/authorized dealer/sole distributor of any item/equipment, the Certificate to this effect should be attached.
2. The tender documents are to be in two parts as **Technical Offer and as Financial offer:**
 - a.) The Technical offer should include the detailed specifications of main equipment/item and its accessories. All items should be numbered as numbered for each instrument.
 - b.) The financial offer should include the cost of main equipment/item and its accessories numbered as in (a). If there is any separate cost for installation etc. that should be quoted separately. The total cost should be quoted in words as well as figures (typed or printed). Amendment should be avoided. Amendments, if any, should be duly initialed, failing which the offers are liable to be rejected.
 - c.) The two parts of the offer should be placed in separate sealed envelopes clearly marked "**Technical Offer**" & "**Financial Offer**". These two envelopes must be enclosed for EMD and Tender Fee marked "**Tender Fee & EMD**" (total three envelopes) must be enclosed in one bigger envelope duly sealed and super scribed with tender number, name of the instrument/item and tender due date must be forwarded to the undersigned so as to reach him on or before the due date.

Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

3. Fax and Email quotation are not acceptable.

4. Quotations should be valid for 120 days from the tender due date. The quotation should clearly indicate the period of delivery, warranty terms etc. A minimum of one year warranty is required from the date of commissioning.

5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. The Suppliers should submit copies of suitable documents in support of their reputation, credentials and past performance.

6. The quotations should be given for the items in the same order as in the tender document.

7. The quantity shown against each item is approximate and may vary as per demand of the Institute at the time of placing order.

8. Imported supplies should be delivered by air and quoted for CIP Ahmedabad.

9. (a). In case of payment through Letter of Credit (LC), 90% (Ninety Percent) of the payment will be released after completion of the supply. The balance 10% (Ten Percent) of the payment will be released after satisfactory installation of the item/equipment.

(b). If the Payment in the form of foreign currency draft/TT, the Institute will release the payment within 30 working days after delivery and successful installation of the item/equipment at IIT Gandhinagar Premises.

10. IIT Gandhinagar is exempt from payment of Excise Duty and is eligible for concessional rate of Custom Duty. Necessary certificate will be issued on demand. IIT Gandhinagar will make necessary arrangements for the clearance of imported goods at the Airport. Hence, the price should not include these charges.

11. In the event of any dispute or difference(s) between the vendee IIT Gandhinagar and the vendor(s) arising out of non-supply of material or supplies not found according to the specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to the concerned authority of IIT Gandhinagar who may decide the matter himself or may appoint arbitrator(s) under the arbitration and conciliation Act 1996. The decision of the arbitrator shall be final and binding on both the parties.

12. The place of arbitration and the language to be used in arbitral proceedings shall be decided by the arbitrator.

13. All disputes shall be subject to Gandhinagar Jurisdiction only.

14. IIT Gandhinagar reserves the rights to accept/reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.

15. The Tender/Bid will be open on **25.02.2013** at **03:00 PM** at **IIT Gandhinagar Premises**.

a.) The suppliers or their authorized representative may also be present during the opening of the Technical offer, if they desire so, at their own expenses.

- b) Only those financial offers will be opened whose technical offers are found suitable by the expert committee appointed for the concerned instrument/equipment.
- c) No separate information shall be given to individual bidders. In incomparable situation, the committee may negotiate price with the qualified bidder quoting the lowest price before awarding the offer.
- d) The Tender Committee reserves its right to select or reject any or all of the Items/equipment mentioned above without assigning any reasons.

16. In case the supplier requires any elucidation regarding the tender documents, they are requested to contact to the Assistant Registrar (M.M.) through e-mail, purchase@iitgn.ac.in on or before **4:00 PM, 21.02.2013**.

17. A demand draft of **Rs. 1,000/- (Rupees One Thousand Only)** towards non-refundable tender fee and a demand draft of **Rs. 26,000/- (Rupees Twenty Six Thousand Only)** at the rate of 2% of the tender value towards refundable EMD from a Nationalized bank/Schedule bank in favour of “**IIT Gandhinagar Project & Consultancy Account**” payable at Ahmedabad placed in a separate envelope marked “**Tender Fee & EMD**” should accompany tender bid documents. Both the demand drafts should be valid for 90 days. Without the Tender Fee and EMD the bid will not be considered.

The EMD of the successful bidder will be returned to them without any interest after completing the successful installation. The earnest money of unsuccessful bidders will be returned to them without any interest within thirty (30) working days after awarding the offer.

18. All tender documents should have to be forwarded through speed post or registered post, courier to the following address so as to reach the following address on/before **05:00PM, 21.02.2013**.

Assistant Registrar (M.M.)

Indian Institute of Technology Gandhinagar,
Vishwakarma Government Engineering College Campus,
Ground Floor, Block “A” ,
Visat-Gandhinagar Highway, Chandkheda
Ahmedabad 382424
Tele/ Fax No. +91 79 2397 2583

Other Terms & Conditions:

1. Pre – Qualification Criteria:

- a. Bidders should be the manufacturer / authorized dealer. Letter of Authorization from Manufacturer on the same and specific to the tender should be enclosed.
- b. An undertaking from the original Manufacturer is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.

2. Performance Guarantee Bond:

- a. Performance Guarantee Bond is mandatory.
- b. Successful supplier/ firm should submit performance guarantee as prescribed and to be received in the office of Assistant Registrar, Materials Management Division before the date of commencement of supply or 30 days from the date of acceptance to tender, whichever is earlier. The performance guarantee bond to be furnished in the form of Bank Guarantee as per given proforma of the tender documents, for an amount covering 10% of the value of quantity of material on landed cost basis.
- c. The Performance Guarantee Should be established in favour of “IIT Gandhinagar Project & Consultancy Account” through any Nationalized Bank / Schedule Bank Situated at Ahmedabad/Gandhinagar with a clause to enforce the same on their local branch at Ahmedabad.
- d. Validity of the performance guarantee bond shall be for a period of entire warranty period from the date of issue of installation & commissioning.

3. **Delivery:** The Equipment should be delivered and installed within the period as specified in the purchase order and be ready for use within one week of delivery unless otherwise prescribed.

4. **Penalty:** If the suppliers fails to deliver and place any or all the Equipment or perform the service by the specified date, penalty at the rate of 1% per week of the total order value subject to the maximum of 10% of total order value will be deducted.

5. **Training:** Suppliers need to provide adequate training at IIT Gandhinagar to the nominated person of IIT Gandhinagar at their cost. IIT Gandhinagar will not bear any training or living expenditure in this regard.

6. **Installation & Warranty Declaration:** Suppliers must give the comprehensive onsite warranty as required from the date of successful installation of Equipment against any manufacturing defects. In the installation report the model number of instrument and all spares parts numbers should be in the line of purchase order. And suppliers must be written in the warranty declaration that “everything to be supplied by us hereunder shall be free from all

defects and faults in material, workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification and shall be complete enough to carry out the experiments, as specified in the tender document.”

Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the suppliers need to supply all the goods in the specified form to the satisfaction / specifications specified in the Purchase order and demonstrate at the their own cost.

Sd/-

Assistant Registrar (M.M)

Form A

PARTICULARS TO BE FILLED BY THE BIDDER

1. Name of the Supplier:
2. Complete Address of the Supplier:
3. Availability for demonstration of instruments at IIT Gandhinagar: Yes / No [Please √]
4. Cost of the Tender enclosed: Yes/No [Please √] If yes,
 - a.) Name of the Bank _____
 - b.) Amount in (₹) _____
 - c.) Demand Draft No. _____
5. Earnest Money Deposit enclosed: Yes / No [Please √] if Yes,
 - a.) Name of the Bank _____
 - b.) Amount in (₹) _____
 - c.) Demand Draft No. _____
 - d.) Last Validity date of the enclosed DD _____
6. Communication details of the concerned contact person to whom all references shall be made regarding this tender enquiry. [NOTE: Any changes after submission of Tender documents kindly update IIT Gandhinagar]
 - a.) Full Name :
 - b.) Complete Postal Address:
 - c.) Telephone No.:
 - d.) Fax No.:
 - e.) Mobile No.:
 - f.) E-mail:
 - g.) Website Address:

Form B

PARTICULAR FOR REFUD OF EMD TO SUCCESSFUL/UNSUCCESSFUL BIDDER

RTGS/National Electronic Fund Transfer (NEFT) Mandate Form

1	Name of the Bidder	
2	Permanent Account No (PAN)	
3	Particulars of Bank Account	
	a) Name of the Bank	
	b) Name of the Branch	
	c) Branch Code	
	d) Address	
	e) City Name	
	f) Telephone No	
	g) NEFT/IFSC Code	
	h) RTGS Code	
	i) 9 Digit MICR Code appearing on the cheque book	
	j) Type of Account	
	k) Account No	

PARTICULARS FOR PERFORMANCE GUARANTEE BOND

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of Two Hundred)
(TO BE ESTABLISHED THROUGH ANY OF THE NATIONALISED BANKS/
SCHEDULE BANKS (WHETHER SITUATED AT AHMEDABAD OR OUTSTATION)
WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT
AHMEDABAD. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.)

To,

The Asst. Registrar (MM),
Indian Institute of Technology Gandhinagar
VGEC Campus, Chandkheda,
Ahmedabad – 382424

LETTER OF GUARANTEE

WHEREAS Indian Institute of Technology Gandhinagar (Buyer) have invited Tenders vide Tender No..... Dt. for purchase of AND WHEREAS the said tender document requires the supplier/firm (seller) whose tender is accepted for the supply of instrument / machinery, etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of **“IIT Gandhinagar Project & Consultancy Account”** in the form of Bank Guarantee for Rs [10% (ten percent) of the purchase value] which will be valid for entire warranty period from the date of installation & commissioning, the said Performance Guarantee Bond is to be submitted within 30 (Thirty) days from the date of Acceptance of the Purchase Order.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said supplier/firm (seller) failing to abide by any of the conditions referred to in tender document / purchase order / performance of the instrument / machinery, etc. this Bank shall pay to Indian Institute of Technology Gandhinagar on demand and without protest or demur Rs (Rupees.....).

This Bank further agrees that the decision of Indian Institute of Technology Gandhinagar (Buyer) as to whether the said supplier/firm (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, (name of the Bank & branch) hereby further agree that the Guarantee herein contained shall not be affected by any change in the constitution of the supplier/firm (Seller) and/ or Indian Institute of Technology Gandhinagar (Buyer).

Notwithstanding anything contained herein:

a. Our liability under this Bank Guarantee shall not exceed Rs.

(Indian Rupees only).

b. This Bank Guarantee shall be valid up to(date) and

c. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if IIT Gandhinagar serve upon us a written claim or demand on or before (date).

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at situated at

.....
.....
.....

(Address of local branch).

Yours truly,

Signature and seal of the guarantor:

Name of the Bank:

Complete Postal Address:

Date:

Annexure-I

Name of the item/Equipment: - Gas Chromatograph

Details & Specifications of the Equipment: -

- General Specifications - Microprocessor based & PC controlled Dual Mode Dual Channel Reaction Gas Analyzer (with Touch-screen Control, Gas Sampling Valves, Micro TCD & Flame Ionization Detector along with Methanizer).

Details	Required Specifications	Supplier Specifications
Dual Mode Gas Analyzer System	On line as well Off line GC for both channels	
Independent Dual Channel Analyzer	FID with Methanizer, Micro TCD for simultaneous and independent injection in both detectors	
EPC for Carrier Lines for FID & Micro TCD	Completely independent pressure and flow controls	
Gas Analysis capability	H ₂ – 0.1 % – 30% CO – 1 -100 ppm & 1 – 20% (Dual Range) CO ₂ – 1 – 25% CH ₄ – 0.01 – 10% C ₂ H ₄ – 1-100 ppm C ₃₊ - Low PPM Traces of C ₁ , C ₂ , C ₃ , C ₄ are present	
Injector Type	Two Packed Injector Ports (1/4” injectors with 1/8” inserts)	
Carrier Lines	All made of EPC, for mass flow control system downstream of EPC	
Gas Sampling valves	(Electrically / Pneumatically Operated) Recommended Vici Valco connected to FID + Methanizer and Micro TCD.	
Control for FID / Micro TCD / Methanizer/ All Gas Sampling Valves / Pressures / Temperatures	should be controllable from touch screen as well as PC using standard Ethernet cable	
Pneumatic system	Recommended provision of DMFC for all gases	
FID	should be time programmable i.e. the sensitivity and gain should be programmable with time; with at least 4 steps so that ‘Lo’ and ‘Hi’ signals can be taken within a run.	

Programmable Control	<ol style="list-style-type: none"> 1. 12 channel external device control, with capability to program the same device twice within the same cycle. 2. GC should be fully programmable through both PC (with ethernet cable) and touch screen. 3. Fault Log and history should be in-built with feature to auto acknowledge the fault on correction 	
Data Analysis and Reports	HTML report files must be generated on completion of the analysis and automatically exported to a pre-defined directory for interfacing with LabView software. The HTML file must contain the concentration values of the components analyzed. Once the analysis completes, the analyzer system must give a signal to the LabView to acquire the HTML concentration file after the analysis is over.	
Sampling System		
Details	Required Specifications	Supplier Specifications
Sampling system design	Should enable on-line GC function	
CO ₂ trapping system	Required	
Leak Tight joints	Original Swagelok / Hoke / Valco fittings of MOC SS	
CO Safety	Separate venting for CO sample to laboratory vent duct	
Sample flow system and CO ₂ extinguisher	The sample flow should be continuous through the analyzer; only for a pre determined time the sample should flow through the loop and CO ₂ extinguishing system. The supplier must provide schematic diagram and operating scheme	
Dual Channel Windows Based Data System With Computer Hardware & Software		
Details	Required features/specification	Supplier Specifications
DAQsystem	Easy operation and fully multitasking with enhanced peak identification to detect minute peaks and overlapped peaks, and also provides facility for manual integration.	

	Chromatogram overlay should be possible	
	Customized Reports should be possible along with the method development report with data visualization such as Zoom In and Zoom out.	
	Multiple Chromatograms and reports should be simultaneously seen & negative peak detection should be possible using programmable integration events table	
	Analog signal with ± 1.25 VDC input at 24 Bits full scale should be possible with a dynamic range of 10^6 at sampling rates from 0.5 hertz to 50 hertz.	
	The data transfer from the software to "txt" format should be possible for other software to pick up the data and process it further. Suitable software should be provided for displaying the concentration, date of analysis and stream number after picking the data from the data integrating system software.	
	Latest Branded Computer (Acer / HCL / Dell) with B&W Laser printer	

Installation Prerequisites

Details	Required Specifications	Supplier Specifications
Gas Cylinders	47 Liters w/c cylinders filled with N / H / ZAG along with SS regulators	
Electric extension board to connect the complete system	Required	
Tool kit		
250 ul / 500 ul / 1000 ul gas tight calibration syringes	1 each (Valco or Hamilton)	
Set of compression fittings for all connections of GC and sampling	1 Set	
	50 m 1/8" OD tube	
Servo stabilizer	5 kVA	

Quote must have a compliance report on all the above points.