



Department of Metallurgical and Materials Engineering
Indian Institute of Technology, Madras, Chennai – 600 036

Enquiry No. MET Tiju 2017 002/SPL

Date: 26.07.2017

Due Date 15.08.2017

Dear Sirs,

1. Quotations are invited in duplicate for the various items shown below / overleaf / enclosed list.
2. The Quotations duly sealed and superscribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The Quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS & D Rate contract, Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. **Local Firms:** Quotations should be for free delivery to this Institute. If Quotations are for Ex-Godown, delivery charges should be indicated separately.
7. **Firms Outside Chennai :** Quotations should be for F.O.R Chennai. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rate of Sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. **The taxes leviable should take into consideration that we are entitled to have Concessional Sales Tax applicable to non-Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificates will be issued at the time of final settlement of the bill.**
8. Goods should be supplied carriage paid and insured.
9. Goods shall not be supplied without an official supply order.
10. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

Yours faithfully,

*Specification Entered for Gas Chromatograph: 1 No
Pl forward Quote to Dr. Tiju Thomas. in two bid system*

Tiju Thomas

PROJECT CO-ORDINATOR
DEPT. OF METALLURGICAL & MATERIALS ENGG.
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI-600 036.

Dr. Tiju Thomas
for ~~The Head of the Department~~
The Project Co-ordinator
Met. & Materials Engineering
IIT Madras, Chennai – 600 036

*Strike Out whichever is not applicable.

Enquiry No: MET/TIJU/2017/002/SPI

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Specifications for Gas Chromatograph :1 No

Basic system should have capability to install three-injector port and four detectors simultaneously. Flexibility to install Packed /capillary Port combinations. Auto ignition should be standard built in, with the system. Data sampling frequency for the Detector should be 200 HZ or better.

Column oven:

Oven volume should be minimum 15 Liter, Temperature range 400 deg c, Programming step should be more then 10, Program rate setting range -200 to 200 Deg c, cooling option should be available with LN2 or Lco2 Valve.

Sample injector:

Packed column injector and one capillary injector as standard & 6 port Gas Sampling valve. Packed column flow controller should be Electronic /Advance /Electro Pneumatic flow controller. Flow rate setting up to 100 ml/min with program step of Min 7

Detector:

Thermal conductivity detector (TCD)

Dual flow rate differential system
Sensitivity:40,000 mV-mL/mg or better

Software: Latest Comprehensive single point software must be quoted for ease of use to control all the parameters as well accessory of GC like Auto sampler Etc.

Display: Built-in large display with provision to display chromatograms, method parameters like temperature, Pressure & flow rates etc.

Spares/Consumables:

All essential spares and consumables for smooth operation must be quoted which includes sufficient quantities.

Start up Kit and Essential Accessories:

Wide bore Column for H₂ and O₂ gas sample analysis. Necessary Gas Cylinder Hydrogen, Nitrogen, Zero Air with double stage Regulators, Gas Purification System for N₂, Argon, Gas Tight Syringe -2.5ml, 250µl each 1 no. Compatible Branded PC & LaserJet Printer.

Referrals:

Please provide a list of past and recent users (at least 4 in number; preferably from India), as referrals.

Annual Maintenance requirement:

Kindly include annual maintenance cost (for at least 2 years)

*The prices will not be negotiated with; hence **best prices** need to be quoted.*

Dr. Tiju Thomas
Project Coordinator/MME



PROJECT CO-ORDINATOR
DEPT. OF METALLURGICAL & MATERIALS ENGG.
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI - 600 036.

*Pl forward Your Quote To:
Dr. Tiju Thomas.*

PROJECT CO-ORDINATOR
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INFORMATION OF TENDER TO UPLOAD IN CPP PORTAL. DATE : 26.07.2017

1.	Tender Reference No.	MET/TIJU/2017/002/SPL
2.	Name of the item	Gas Chromatograph – 1 NO
3.	Tender Category	Goods
4.	Type of Tender (Limited, Open)	Open
5.	No. of Bids : (1/ 2)	2/Technical & Financial
6.	Tender Start Date	26.07.2017
7.	Tender Due Date & Time	15.08.2017
8.	Bid Opening Date & Time	16.08.2017
9.	Bid Opening Venue	Will be decided by Coordinator
10.	Pre-bid meeting Date & Time	---
11.	Pre-bid Meeting Venue	----
12.	Quotation Validity Days	60 Days
13.	Tender Validity Days	21 Days
14.	Quotation May be Sent to (Inviting Officer Name & Address)	Dr. Tiju Thomas Project Coordinator Dept of Metallurgical & Materials Engg IIT Madras Chennai – 600 036, India
15.	No of documents to be uploaded in CPP portal	One (Specification Enclosed)



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