

**Department of Physics, Indian Institute of Technology
IIT.P.O. Madras-600 036**

Ref. No.

Date; 10.10.2017

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| PHY | 2017 | 0012 | STORES |
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To,

Dear Sir,

Due date. 24.10.2017

1. Quotation 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, RC No. and the price must be mentioned. It may be 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 RC (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 Certificate will be issued at the time of final settlement of the bill.**
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. 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.

SPECIFICATION ENCLOSED

Yours Sincerely

Co-coordinator (Dr. Somnath C Roy) Email: somnath@iitm.ac.in; Phone 044-22574886

Somnath C Roy
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Gas Chromatograph Instrument Specifications for Dept. of Physics, IIT Madras

1. **Column Oven with** Temperature range: Ambient +4 °C to 400 °C or better ;
Temperature program ramps: 5 or higher; Temperature set point resolution 1°C or lower;
Fast cool down feature
2. **Injector/Inlet: Split/Splitless Injector-** 2 Nos. suited for both wide bore and narrow bore columns ; Necessary adapters must be provided
3. **Thermal conductivity detector (TCD):** Suitable for detection of CO, Hydrogen in the concentration range of 100 – 10000 ppm.
4. **Flame Ionization detector (FID) :** Suitable for the detection of primary hydrocarbons (C1-5) and Alcohols in the range of 50 – 5000 ppm
5. **Packed/Capillary Columns:** Columns suitable for the detection of the above gases in the concentration ranges mentioned. The columns should be capable of handling moisture that will be present in the sample gas mixture.
6. **Complete installation for a basic system:** Including adapters, tubing, connectors, valves, MFCs etc. The system should be a complete one with manual injection facility.

Additional/Optional Items:

1. Suitable Interfacing software and hardware (PC) with UPS (with rating) and printer may be quoted as additional items.
2. A list of supporting items for operation such as Gas cylinders, regulators, purifiers etc may be clearly mentioned with respective specifications. These will be arranged by us.
3. A minimum of 1 year warranty must be given from the date of installation and 2 years of additional warranty may be quoted separately.
4. The supplier must have installed similar systems in government labs, research/educational institutes (such as IITs, IISc, NITs, Universities, IISERs) in India and a list of such users with their contact details must be provided.
5. Installation and on-site training for operation must be provided free of cost.

Address to send the quote/tender:

Dr. Somnath C Roy, Associate Professor,
HSB 119B, Department of Physics,
IIT Madras, Chennai 600036



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