

Department of Chemistry
Indian Institute of Technology Kanpur

Enquiry No: IITK/CHM/SKK/01
Enquiry Date: 23-06-2016
Closing Date: 05-07-2016



Dear Sir or Madam: Quotations are invited for "Gas chromatography". Sealed quotations are invited for the supply of following system as per the specifications mentioned along with complete terms and conditions. Please also send us your client list. Your best offer should reach us on **before 05-07-2016** to the following address.

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Sr No	Description	Qty
1	Gas chromatography	01

Specification of Gas chromatography:

System should be capable of supporting two inlets and three detector ports simultaneously, should have electronic pneumatic / pressure controls for all the gases.

The system should have digital display/LCD on machine for quick view of GC Parameters

System should have capability of locking/adjusting the retention time so that same Retention time can be reproduced from system to system and the method should be electronically transferred

Column Oven:

Oven temp range upto 400 Deg C or better

Number of temperature-programmed ramps: 9 ramps or better

Temperature set point resolution 0.1 Deg C.

Cool down rate : 400 Deg C to 50 Deg C in 4.5 mints or better.

Maximum programmable temp ramps rates: at least 120°C/ min

Injectors:

Split/Splitless Capillary Injector with Electronic Flow Control – 1 No
Maximum temperature: 450 Deg C
Pressure range: 0-150 psi (100 psi with increment of 0.001psi)

EPC:

The System should have Pressure set point and control precision to 0.01 psi

Detectors:

Flame Ionization Detector (FID) - 1 Nos
Auto flame out detection
Auto flame re-ignition
Max. Temp. 400 deg C or better
Detectivity 1.5pg C/sec or better
Linear dynamic range 10⁷ or better

Autosampler & Column: (Should be quoted as Optional)

The system should be supplied with suitable auto sampler & 60 meter Column to separate ketones, alcohols, alkane, alkene, amine, nitro, esters compounds etc.
Both the items should be quoted as optional.

Software & Accessories:

The system should be supplied with user friendly software & the entire accessory to install the system including Gas Purification Panel & SS Regulators. Cylinders will be provided by the Institutions.

Warrenty for the GC.

NOTE: The system should be fully upgradable to GC-MS in future

Please aslo include the following additional items:

1. Gas purification panel (for H₂, Argon & Zero Air)
2. SS body Double stage Regulator 3 QTY (for H₂, Argon & Zero Air)
3. Standard Fitting, Nuts, Ferrules required for installation
4. Installation Charges (for this purification panel)
5. T-SS-1/8" S.S. Tubing (200 ft)
6. CC-PVC PVC Casing 90 (120 Ft)

Quote your best offer in Indian rupees and F.O.R –IIT- Kanpur