

CSIR-INDIAN INSTITUTE OF PETROLEUM

DEHRADUN (U.K.) INDIA



BID DOCUMENT

Under SINGLE BID System
For

"Gas Chromatography for Petrochemical Analysis"

Ref No. PUR/1/18-19/661/RRB/RTD/PO

Date: 04.12.2018

Last Date/Time of submission: upto 14:30 hrs (IST) on 01.01.2019

Date/Time of opening: at 15:00 hrs (IST) on 02.01.2019

To Be Submitted To

Stores & Purchase Officer
CSIR-INDIAN INSTITUTE OF PETROLEUM

P.O. IIP, MOHKAMPUR,
HARDWAR ROAD, DEHRADUN (U.K), India
Ph: 0135-2525762, 2525945
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INVITATION FOR THE BIDS

Ref No. PUR/1/18-19/661/RRB/RTD/PO

Date: 04.12.2018

Bids shall be submitted on CPP Portal (<https://etenders.gov.in>). Documents in support of "Eligibility Criteria", checklist & containing Bid valid for 120 days are invited from eligible bidders for supply of "**Gas Chromatography for Petrochemical Analysis**" for the INDIAN INSTITUTE OF PETROLEUM (CSIR-IIP), Dehradun as per detail specification provided at the Schedule of Requirement.

1.0 Eligibility Criteria/ Pre-qualification Requirement

- I. The Bidder should be a manufacturer or a dealer specifically authorised by the manufacturer to quote on their behalf for this tender as per manufacturer authorisation form and Indian agents of foreign principals, if any who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification".
 - II. Details of service support facilities that would be provided after the warranty period should be submitted in the Service Support Details Form.
 - III. In the case of a Bidder not doing business in India, the Bidder is/ or will be (if successful) represented by an Agent in India who shall be equipped and able to carry out the Supplier's maintenance, repairs and spare parts, stocking obligations prescribed by the conditions of the contract.
 - IV. The Bidder will assume total responsibility for the fault-free operation of equipment, application software, if any, and maintenance during the warranty period and provide necessary maintenance services and spare parts support **for ten years** after end of warranty period if required.
 - V. Bidders who meet the criteria given above are subject to be disqualified, if they have made untrue or false representation in the forms, statements and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, etc.
 - VII Bidder should submit valid documentary proof of GSTN and the details of income tax registration (PAN).
 - VIII Only online quotations will be entertained from the registered bidders of CPP Portal (www.etenders.gov.in).**
- 1.1 CSIR-IIP reserves the right to verify/seek confirmation of all original documentary evidence submitted by vendors in support of above mentioned clauses of eligibility criteria. In case any information furnished by the bidder is found to be false /incorrect at any stage, the bid shall be summarily rejected and no correspondence on the same shall be entertained.
 - 1.2 The vendor must fulfil the above eligibility criteria/ pre-qualification conditions. Technical bid of vendors fulfilling the pre-qualification conditions will only be evaluated by the duly constituted technical evaluation committee. Bid of vendors not fulfilling the Eligibility- Criteria given above will be summarily rejected. Undertaking for subsequent submission of any of the above documents will not be entertained under any circumstances.



- 1.3 "Technical Bid and Financial Bid" should be submitted on Central Public Procurement Portal (<https://etenders.gov.in>) in accordance with the instructions/terms & conditions of the tender.
- 1.5. The Bid will be opened in the Purchase Section of the CSIR-IIP on the next day (last date of submission of the Bid) at 15:00 hours (IST) in the presence of bidders who choose to be present.
- 1.6 CSIR-IIP will make its purchasing decision based on the ability of the bidder to meet its Labs/Institutes long term needs, technical expertise of the bidder, delivery capability, customer references and price. However, specific criterion used to evaluate bid response is listed in the chapter "Instruction to bidders".
- 1.7. The Director, CSIR-Indian Institute of Petroleum, P.O. IIP, Mohkampur, Hardwar Road, Dehradun-248005 (U.K) India, CSIR-IIP reserves the right to waive any minor irregularities; accept the whole, accept part of or reject any or all bids.

Schedule of Requirements & Technical Specifications

1.1 Scope of the Work:

Supply, Installation, Testing, Commissioning, Support Services and on-Site Comprehensive Warranty Maintenance of the equipment as per detail technical specification given below.

Note: The bidder should undertake to provide support for the supplied systems/sub-systems for **warranty period of one year from the date of installation. Service and spare part support for 10 years from the date of installation.** The bidders shall be required to confirm their willingness to accept the contract and indicate the terms and conditions in their technical bid along with the corresponding charges in the financial bid.

- 1.2 Potential suppliers should provide detailed activities time schedule, which represents the shortest practical time to complete all necessary tasks and meet the obligations of the requirements. All significant activities must be included, including those associated with the delivery, acceptance testing, installation and commissioning of the equipments/ products and quality certifications.

1.3 Technical Specifications:

The detailed technical specifications of the equipments/ systems are specified below:

Sl. No	Description	Quantity
1.	Gas Chromatography for Petrochemical Analysis The detail specification as per attached Annexure	01 (One No)

Please note that complete set of "Standard Bid Document" is available in our website www.iip.res.in at free of cost. The same may be downloaded and used while preparing your bid. A copy of the same may be attached along with the bid, duly signed and stamped.

(Stores & Purchase Officer)

TECHNICAL SPECIFICATION

Gas chromatography for petrochemical analysis.

S.No	Element	Specifications
1	Chromatography Performance	i) Retention time repeatability < 0.008% or <0.0008 min or better
		ii) Area repeatability <1% RSD
		iii) Automatic leak check and self-diagnostic in case of errors.
2	Oven	i) Ambient temp +4°C to 450°C.
		ii) Maximum achievable temp rates: 100°C/min or better
		iii) Oven cool down time from 400°C to 50°C in less than 5.0 min or better
		iv) Temp stability should be within 0.1% of the actual temp.
3	Gas Sampling Valve (GSV)	i) Heated GSV 150°C or above
		ii) online and offline gas sample injection
4	Injector (02 Nos)	i) Split/splitless Inlet system with pneumatics control, Maximum temp : 400°C, 0-120 psi or better operation with 0.1psi increments, split ratio up to 1000:1 or better to avoid column overload and Gas saver mode to reduce gas consumption ii) one splitter <i>(Removable)</i>
5	Detector: 1- Thermal Conductivity Detector (TCD)	i) Linear dynamic range: > 10 ⁵ or better & with automatic bridge balancing ii) Maximum temperature: 400°C or better iii) Minimum detectable level: 400 pg tridecane or 300pg butane
	Detector: 2- Flame Ionization Detector (FID)	i) FID with pneumatic control ii) Maximum temp: 450°C iii) Minimum Detectable level ≤ 1.5pg C/s iv) Linear dynamic range : > 10 ⁺⁷ v) Flame out detection & auto reignite vi) Data rates 400Hz or better vii) FID with pneumatic control vii) should have 15 rapms and 16 plato or better
6	Flow control system	i) The EFC/EPC/PPC should be able to set the pressure to a minimum accuracy of 0.1 or better ii) EPC /EFC for Capillary Inlet
7	Auto liquid sampler	10 vials or more
8	Column	Two sets of column 1) polar columns (60mX0.32mmX0.5µm) 2) HP - plot Q 0.53mmX30m
9	Chromatography Management Software	The chromatography software should be dual channel and compliant with latest windows based operating system. The software should have standard GC software features like interactive graphics, tool bar for online editing, batch data processing, automated baseline correction, peak integration, overlay, baseline compensation, S/N ratio adjustment

10	PC	The system should be supplied with a branded computer, having latest and required configuration for running the system software for data acquisition, data processing and data storing and printing purpose.
11	Warranty	Minimum 1 years of warranty
12	Service Support	10 Year service support with required accessories

