



# CSIR-Indian Institute of Petroleum

(Council of Scientific & Industrial Research)

P.O.I.I.P., MOHKAMPUR, DEHRADUN – 248005 (UA) **INDIA**

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## TENDER NOTICE NO 08/2017-18

Sealed tenders under two bids system ( Part-I Technical bid along with EMD and Part II Price bid) are invited from the Indian / Foreign manufacturers/ Authorized Distributors or Indian Agents for the supply, installation and commissioning of the following equipment:-

Sl.No	File No.	Description	Qty	EMD (in Indian Rupees)
1.	PUR/1/17-18/31/PARTD/PO:	Refinery Gas Analyzer (RGA)	One	80,000.00 (Rs Eighty Thousand Only)

The bids must reach this office on or before **02.08.2017** upto **14:30 hours (IST)** and shall be opened on same day at **15:00 hours (IST)**.

Please visit our website [www.iip.res.in](http://www.iip.res.in) for further details for standard bid documents.

  
(S.O. Stores & Purchase)



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## TENDER NOTICE NO 08/2016-17

INVITATION FOR BID / NIT (Two Bid System)

1. Sealed tenders under two bids system ( part-I Technical bid along with EMD and part II Price bid) are invited from the Indian / Foreign manufacturers/ Authorized Distributors or Indian Agents for the supply, installation and commissioning of the following equipments:-

SI No.	Tender No.	Description of items	Qty	EMD (in Indian Rupees)
1.	PUR/1/17-18/31/PA/RTD/PO:	Refinery Gas Analyzer (RGA) (Detailed specification as per Annexure)	One	80,000.00 (Rs Eighty Thousand Only)

2. The complete set of "Standard Bid Document" is available in our website [www.iip.res.in](http://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.
3. The bids must reach this office on or before 02.08.2017 upto **14:30 hours (IST)** and shall be opened on **same day at 15:00 hours (IST)**.
4. EMD should be in favor of Director, I.I.P, Dehradun in form of Demand Draft or Bank Guarantee.
5. The Director, Indian Institute of Petroleum, Dehradun reserves the right to accept any or all tenders either in part or in full or to split the order without assigning any reasons there for.
6. The Indian agent of the foreign suppliers should be enlisted with DGS&D.

  
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**Technical Specifications - Refinery Gas Analyzer (RGA)**

For detection and quantification of gaseous mixture of permanent gases such as H<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, CO, CO<sub>2</sub>, H<sub>2</sub>S; along with gaseous hydrocarbons (C1, C2, C3, C4, C5, C6, C7 component wise) with detection limit for H<sub>2</sub>S minimum 5ppm. Moisture (<40 ppm) is also present in the sample to be analyzed, RGA should be capable of handling moisture present along with sample gas.

Detection Limits - 0.001% to 100% of permanent gases and hydrocarbons via Thermal Conductivity Detector (TCD) and/or Flame Ionization Detector (FID).

Accuracy of analysis:  $\pm 0.005$

Precision of analysis:  $\pm 0.005$

Repeatability of analysis: < 1%

Retention Time repeatability:  $\leq \pm 0.010\%$

Area Repeatability: < 0.5% RSD

RGA should be factory calibrated with optimized method for quantitative analysis of C1-C7 Hydrocarbon gases, CO<sub>2</sub>, CO, N<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub> and H<sub>2</sub>S.

The columns should be factory configured and ready to use solution for analysis of all permanent gases, hydrocarbon gases.

Compatible operation and analysis software should also be provided which is compatible with GC.

Necessary computer/workstation (with latest windows OS) and printer should be provided (latest configuration - compatible with the RGA software (with perpetual license) and equipment).

Necessary filters assembly for gas purification should be provided.

Necessary toolkit for maintenance should be provided.

Calibration certificates, service and operation manuals, along with wiring diagram should be provided.

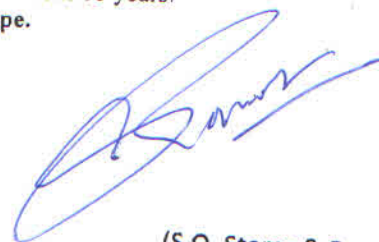
Necessary spares and columns for 2 years of continuous operation should be provided. (optional)

1 year standard warranty with optional quote for 2 years extended warranty is required.

User Feedback certificate from 5 users of same equipment (RGA) should also be provided.

The vendor should be capable to support the service of the equipment for next 10 years.

Installation, commissioning and training at our site in vendor's scope.



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