



## CSIR-Indian Institute of Petroleum

(Council of Scientific & Industrial Research)

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### **Subject: Invitation of Expression of Interest (EOI) No : 15/2017-18**

Indian Institute of Petroleum (IIP), Dehradun, and ISO 9001 Institute, is one of the leading constituent laboratories under Council of Scientific & Industrial Research (CSIR) engaged in R&D work in petroleum refining, natural gas and petro-chemicals and contributing towards creation of state of the art technology & products. CSIR-IIP has been working on several projects of natural importance independency and also in collaboration with well-known Indian foreign organizations.

EOI are hereby invited from reputed engineering firms for fabrication, installation and commissioning of the following:

**Reference No.: PUR/1/17-18/EOI/83/IKG/CSD/PO**

**“Hi-Speed Gas Analyzer/RGA Gas Chromatograph”**

**Last date of submission : 25th October, 2017 by 2:30 PM**

**Date of opening : 25<sup>th</sup> October, 2017 at 3:00 PM**

Interested bidders may download the details from our Website: [www.iip.res.in](http://www.iip.res.in)

  
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**Subject: Invitation for Expression of Interest (EOI) for “Hi-Speed Gas Analyzer/RGA Gas Chromatograph”**

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Firms having done similar nature of work can apply along with the documentary evidence for the work done in the past. The firms should also meet the other parameters as given below and are required to submit following information along with their applications.

- 1) Name of the firm with their constitution/proprietorship/partnership detail, etc with the date of establishment/registration.
- 2) List of similar works successfully completed in the last ten years as above with testimonials from department concerned and the details of contact persons.
- 3) The firm should not have incurred any loss in more than two years during the last five years ending 31<sup>st</sup> March, 2017.
- 4) List of works in hand giving nature of work, department, cost, date of start and completion with present progress and the contact details of clients.
- 5) Balance sheet of the firm for previous two years (2015-16 and 2016-17) must be enclosed with the offer certified by chartered accountant evidencing turnover.
- 6) The article of association with offer to know the standing of the firm.
- 7) **All Indian agents of foreign principals have to compulsorily enlisted with DGS&D, New Delhi.**

Offers against this EOI should be submitted in a sealed envelope duly super-scribing **Expression of Interest (EOI) for “Hi-Speed Gas Analyzer/RGA Gas Chromatograph”** to **The Director, CSIR-Indian Institute of Petroleum, Mohkampur, Haridwar Road, Dehradun-248005.** Positively by **25/10/2017 by 2.30 PM**. The offers shall be opened on the same day at 3:00 PM. Shortlisted firms shall be called for making a presentation at a later date.

If any information furnished by the applicant is found incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of work in CSIR. CSIR-IIP reserves the right to verify the particulars furnished by the applicant; independently. CSIR-IIP reserves the right to reject any prospective application without assigning any reason.

Technical Specification (as per attached Annexure)

  
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1. **Application:** complete analysis of methane, ethane, ethylene, propane, propylene, i-butane, n-butane, acetylene, propadiene, t-2-butene, 1-butene, i-butylene, c-2-butene, i-pentane, n-pentane, 1,3-butadiene, methyl acetylene, t-2-pentene, 2-methyl-2-butene, 1-pentene, c-2-pentene, hexane-1, hexane, DME, isoprene, methanol, H<sub>2</sub>, He, CO<sub>2</sub>, O<sub>2</sub>, N<sub>2</sub>, CO and H<sub>2</sub>S in a single injection.
2. Analysis time: 20 minutes or better
3. Minimum detection limit of each component: 500 ppm
4. Maximum detection limit of each component: 100% mole
5. Analysis data should be repeatable and reproducible under actual running conditions
6. Heated GSV for both online and offline gas sample injections
7. Programmable column oven (at least 10 ramps and 10 holds per method)
8. Maximum oven temperature 400°C
9. Oven temperature ramp 100°C/min or better
10. Rapid oven cooling from 400°C to 50°C in less than 5 minutes
11. GC should have electronic pneumatic control (EPC)
12. GC-RGA should be tested prior to shipment at IIP and the standard report/certificate of complete analysis in GC in a single run must be provided which should be repeatable at IIP during actual run analysis.
13. 12 months from the date of commissioning along with all the parts of GC (except consumable items: column, septa, syringe, vial) for smooth running of analysis
14. 2 years of free service after the warranty period expires with full service free of cost whenever it is required.
15. Complete installation with gas lining and regulator with purification panel.

  
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