



## CSIR-Indian Institute of Petroleum

(Council of Scientific & Industrial Research)

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

Ph.0135-2525762 & 2525945, Fax. 0135-2660072, 2660202-203

E-Mail- [pmitra@iip.res.in](mailto:pmitra@iip.res.in), [rawats@iip.res.in](mailto:rawats@iip.res.in)

Website : [www.iip.res.in](http://www.iip.res.in)



Creating

Future

Fuels

ISO-9001 Regd. Institute

### TENDER NOTICE NO 09/2017-18

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/1/17-18/93/RK/ASD/PO:	Sulfur Analyzer	One	1,00,000.00 (Rs One Lakh Only)

The bids must reach this office on or before **16.08.2017** 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.

(Stores & Purchase Officer)



# CSIR-Indian Institute of Petroleum

(Council of Scientific & Industrial Research)

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

Ph.0135-2525762 & 2525945, Fax. 0135-2660072, 2660202-203

E-Mail- [pmitra@iip.res.in](mailto:pmitra@iip.res.in), [rawats@iip.res.in](mailto:rawats@iip.res.in)

Website : [www.iip.res.in](http://www.iip.res.in)



Creating

Future

Fuels

ISO-9001 Regd. Institute

## TENDER NOTICE NO 09/2017-18

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:-

Sl No.	Tender No.	Description of items	Qty	EMD (in Indian Rupees)
1.	PUR/1/17-18/93/RK/ASD/PO:	Sulfur Analyzer (Detailed specification as per Annexure)	One	1,00,000.00 (Rs One Lakh 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 16.08.2017 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.

(Stores & Purchase Officer)

**TECHNICAL SPECIFICATIONS**

UV Fluorescence based analyzer for measuring sulfur content present in liquid hydrocarbon fuels such as LPG, gasoline, kerosene, diesel and lubricating oil. The instrument should comply with ASTM D5453 and D6667 method and should have sample introduction facility for liquid, viscous liquid samples; combustion chamber; detector and suitable data processing system.

**Essential requirements:**

1. Principle of Sulphur Detection: UV Fluorescence conforming to ASTM D5453 and D6667.
2. Sulphur Measuring range: 100 ppb to 10000 ppm
3. The precision and bias for sulphur measurement as per ASTM D5453 and D6667
4. The offered system should have electronic flow controllers for precise control of carrier gas and combustion gas. The actual and set values of different supplied gases should be displayed on the screen. Flow controllers and flow of the gases in the instrument should be controlled through the software.
5. Vertical furnace for any boiling point liquids. The maximum operating temperature of the furnace should be 1100 deg C or higher. The heating elements and control of furnace should be rugged enough to provide ten years trouble free operation.
6. The software should be able to store analysis data for each element and provide results from calibration curve of the standard reference materials. The software should have built in options for automatic hardware selection, full error logging, pre-set alarms level, for converting results from % weight to % volume.
7. The system will be supplied with a latest PC configuration compatible with the application software for data acquisition and data storing purpose.
8. Calibration standards for sulfur must be supplied along with the instrument for calibration purpose in the full measuring range. Provide standard sets in sufficient numbers for next 3 years of instrument operation.
9. Voltage requirement of the system should be 220 V, 50 Hz.
10. Please quote a suitable compatible UPS.
11. Please quote a syringe based PC controlled liquid auto sampler. It should have 50 vials or more capacity. It should also have wash-station with option of pre and post washings. Syringe should be 100 µl calibrated having traceability to NIST/ISO17025 with suitable needles for Auto-sampler injection.
12. **Supplier should provide a list of users addresses (minimum three) in India where the supplier has supplied the quoted model if it is not a new model.**
13. Installation commissioning and comprehensive free on-site training of IIP personnel by service / application engineer trained from the manufacturing company.
14. At least 12 months comprehensive warranty from the date of commissioning.
15. Provide the service and operation manual.

**Optional requirements:**

1. Supplier should quote separately spares and consumables for the analyzer and sampling system required for proper functioning of the instrument for at least three years
2. Quote separately 24 months additional comprehensive warranty after completion of the compulsory 12 months comprehensive warranty.

(Stores & Purchase Officer)