



## 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 10/2017-18

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/1/17-18/60/RKS/RTD/PO:	Jet Fuel Thermal Oxidation Tester (JFTOT)	One	1,58,000.00 (Rs One Lakh Fifty Eight Thousand 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)



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## **TENDER NOTICE NO 10/2017-18**

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/1/17-18/60/RKS/RTD/PO:	Jet Fuel Thermal Oxidation Tester (JFTOT) (Detailed specification as per Annexure)	One	1,58,000.00 (Rs One Lakh Fifty Eight 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 **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.

  
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## TECHNICAL SPECIFICATION

A fully integrated, microprocessor controlled, latest and advanced version of bench-top JFTOT, factory configured for stand-alone operation with all required accessories and ready to use for determination of Thermal Oxidation of Aviation turbine Fuel (ATF) with specified accuracy & precision conforming to standard test methods ASTM D3241, IP: 323, ISO 6249.

### Essential Requirements:

1. Sample Capacity: 600 mL (max.) or less
2. Temperature Range: 120°C – 380 °C; Accuracy +/- 2°C
3. Operating system pressure: 500 psi +/- 10%
4. Differential Pressure Range: 0 – 280 mm hg (automatically bypassed at +250 mm Hg)
5. Fuel Flow Rate: 3.0 ± 10% mL/min with ± 2% accuracy.
6. Thermocouple Temperature Range: 0°C to + 500 °C.
7. Aeration Rate: 1.5 L/ min., provision of Fuel Aeration Timer.
8. Auto-flushing, pump priming.
9. Appropriate safety provision with respected to temperature and pressure should be provided.
10. Auto calibration of temperature. Calibration certificate should be provided.
11. As per the requirement of the test method, CRM to be supplied along with the main equipment. Cost to be included in the main supply.
12. Voltage requirement of the system should be 220 V, 50 Hz.
13. Supplier should provide a list of users addresses (minimum two) in India where the supplier has supplied the quoted model if it is not a new model.
14. Installation commissioning and comprehensive free on-site training of IIP personnel by service / application engineer trained from the manufacturing company.
15. At least 12 months comprehensive warranty from the date of commissioning.
16. 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.

  
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