



सी०एस०आइ०आर०-भारतीय पेट्रोलियम संस्थान
CSIR-Indian Institute of Petroleum

(वैज्ञानिक एवं औद्योगिक अनुसंधान परिषद)

(Council of Scientific & Industrial Research) ISO-9001-2015 Regd. Institute

पो. ऑ. आई. आई. पी., मोहकमपुर, देहरादून, भारत

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

Ph.0135-2525762 & 2525754, Fax. 0135-2660072, 2660202-203

E-Mail: spo.iip.iip@csir.res.in, meena.kumari@csir.res.in

Website : www.iip.res.in



Reference No. IIP/PUR/1/25-26/EOI/FCC/

Date: 19.12.2025

Subject: Invitation of Expression of Interest for “**Lab Scale FCC Unit**”

CSIR-Indian Institute of Petroleum (IIP), Dehradun, and ISO 9001-2015 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 National importance independently and also in collaboration with well-known Indian & foreign organizations.

This EOI is designed to explore the market and to finalize specifications based on technical discussions/presentations with the experienced Engineering/Fabricating companies/Firms in a transparent manner for “**Lab Scale FCC Unit**”.

E-BIDS for Non- Committal EOI are hereby invited through Central Public Procurement (CPP) Portal (<https://www.etenders.gov.in>) and only online offers will be entertained from the registered bidders of CPP Portal.

Reference No.:

Supply of “Lab Scale FCC Unit”

Last date of submission : 13.01.2026 by 3:00 PM

Date of opening : 14.01.2026 at 3:00 PM

Interested bidders may download the details from our Website: www.iip.res.in or on CPP Portal (<https://www.etenders.gov.in>).

For and on behalf of CSIR
Sd/--
Stores & Purchase Officer

Subject: Invitation for Expression of Interest (EOI) for “Lab Scale FCC Unit”

CSIR-India Institute of petroleum (IIP), Dehradun an ISO 9001 Institute is one leading constituent under the council of scientific & Research (CSIR), engaged in R&D work in petroleum refining, natural gas and petrochemicals and contributing towards the creation of the state of the art technology & products. CSIR-IIP has been working on several projects of national importance independently and also in collaboration with well-known Indian organizations.

EOI are hereby invited from engineering firms for putting up “*lab scale FCC unit*” *for the evaluation of FCC catalysts activity using the ASTM D7964/D7964M standard test method*. This can be a sequentially operated unit, wherein reactor will undergo reaction and regeneration steps in tandem.

Firms having done similar nature of work can apply along with 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 constitution /proprietorship detail, etc with the date of establishment/ registration
- 2) List of similar orders completed in the seven seven years as above with testimonials from the department concerned and the details of contact persons.
- 3) The firm should not have incurred any loss in more than 2 years during the last 5 years ending 31st March, 2025.
- 4) List of orders in hand giving details of department, and cost, date of start and completion with present progress, and the clients’ contact details.
- 5) The certified Balanced Sheet and Profit & Loss account of the firm for the previous two years must be enclosed with the offer.
- 6) Please submit articles of Association along with the offer to outline the scope of activities and standing of the firm.
- 7) Details of fabrication facilities including area and tooling list along with a short video or photographs. List of quality certifications / accreditations that are currently valid, with copies of such certificates.
- 8) A duly signed undertaking on official letterhead of the firm that the firm has not been banned or blacklisted at any time for supplies to government or similar agencies.
- 9) Tentative PFD and P&ID of the proposed lab scale FCC unit based on the ASTM D7964/D7964M standard test method.
- 10) The EOI should be non-committal. The EOI is only for market exploration.
- 11) Director, CSIR IIP/ Competent Authority, reserves the right to cancel the EOI without assigning any reasons thereof.

Firms are requested to refer to the ***Order Nos. P-45021/2/2017-PP (BE-II) dt. 15.06.2017 as amended vide order of even number 28.05.2018, 29.05.2019, 04.06.2020, and 16.09.2020 and any subsequent amendments thereto*** issued by Public Procurement Section of DPIIT, Min. of Commerce & Industry, Government of India in their own interest to know about the provisions related to domestic suppliers for participation in open tenders. Firms may also refer to various other policies / programs of the Govt. related to promoting domestic manufacturing and/or supply

Offers against this EOI containing the technical aspects and contractual terms and conditions of the proposed procurement without a bid price should be submitted in form of E-BIDS through Central

Public Procurement (CPP) Portal (<https://www.etenders.gov.in>) and only online offers will be entertained from the registered bidders of CPP Portal. Last date of submission of EOI is 13.01.2026 by 3.00 PM. and shall be opened on the 14.01.2026 at 3:00 PM. Shortlisted firms shall be called for making a presentation at a later date.

If the Procuring Entity is of the view that after EOI stage, there is likelihood of further participation by many more bidders and to avoid getting trapped into a legacy technology, the second stage bidding may not be restricted only to the shortlisted bidders of EOI stage. In the second stage, normal OTE/GTE bidding may be done.

If any information furnished by the applicant is found incorrect at a later stage, it 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.

Scope of Supplies for “Lab Scale FCC Unit with Online RGA-GC” for CSIR-IIP, Dehradun is as follows.

- 1) Feeding section consists of feed pump with heating system, gas and feed pre heating systems, and all inter connecting piping & fittings, and all instruments (PGs, PIs, PSVs, TIs, TICs, and MFCs etc) as per PFD.
- 2) Reaction and regeneration section consists of FCC reactor, catalyst filter, condenser cum gas-liquid separator, CO reactor, drier, and gas collection system based on water displacement.
- 3) On line refinery gas analyzer gas chromatography operable based on ASTM D2163, ASTM D7833 and UOP 539.
- 4) The mass of carbon (coke on catalyst) measurement is to be back calculated from the CO₂ evolved in the flue gas during regeneration cycle using an on line IR CO₂ analyzer.
- 5) Electrical power & control panel with PLC & HMI
- 6) Certification of the plant by a NABCB accredited Third Party Inspection Agency such as Intertek/TUV/Equivalent.
- 7) Operation & Instruction manual with all drawings, test certificates, catalogues etc.
- 8) Erection / commissioning, performance test of the equipment at site.

Kindly arrange to provide the following information also with your bid

a. Company Profile	m. Past Performance/Installation certificates
b. OEM Authorization Letter	n. Audited financial statements (last 5 years)
c. Brochures/Technical data sheets	o. No loss certificate during last 05 years duly certified & stamped by Chartered Accountant
d. Compliance matrix (Table form)	p. GST Registration + PAN
e. Warranty & service support plan	q. Non-blacklisting certificate
f. Make in India (MII) details or GTE	r. Rough Budgetary Estimates.
g. Estimated Delivery Period	s. No financial bid is to be submitted
h. AMC or CAMC estimates for 5-10 years.	t. Country of Origin
i. Calibration and Validation protocol (if any)	u. Export Clearance information. (if any)
j. IP restrictions (if any)	v. Training Requirement (if any)
k. Critical Consumables and Spares parts list	
l. Installation and site readiness requirement	

For and on behalf of CSIR
Sd/--
(Stores & Purchase Officer)