



CSIR-Indian Institute of Petroleum

(Council of Scientific & Industrial Research)

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Subject: Invitation of Expression of Interest (EOI) 2018-19

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.

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

Reference No.: PUR/1/18-19/EOI/674/IKG/CSD/PO:

“Digitally Controlled Lab Scale Catalyst Extruder With Variable Extrudate Size and Shapes”

Last date of submission : 18th December, 2018 by 3:00 PM

Date of opening : 19th December, 2018 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>).

(S.O., Store & Purchase)

Subject: Invitation for Expression of Interest (EOI) for “Digitally Controlled Lab Scale Catalyst Extruder With Variable Extrudate Size and Shapes”

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EOI are hereby invited from reputed engineering/fabricating companies/firms for putting up “A *digitally controlled lab scale catalyst extruder with variable extrudate size and shapes*. 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 three 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 31st March, 2018.
- 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 (2016-17 and 2017-18) 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.

Offers against this EOI should be submitted in form of E-BIDS through Central Public Procurement (CPP) Portal (<https://www.etenders.gov.in>) and only online quotations will be entertained from the registered bidders of CCP Portal. Last date of submission of EOI is **18th December, 2018 by 3.00 PM**. and shall be opened on the 19th December 2018 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.

Details of the digitally controlled lab scale catalyst extruder with variable extrudate shape and sizes:

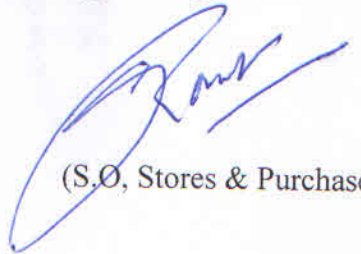
Brief technical specification:

- Lab. Scale model (capacity: 10-50g)
- Easy to dismantle and clean all contact parts.
- Extruder with combination of accessories to provide extrudate of various sizes (dia: 0.5mm - 3mm) and shapes (cylindrical, spherical, trilobe or quadralobe cross section etc.)
- Option of introducing feed in solid powder/semi-solid form.
- Option to blend different solid powders prior to extrusion inside the machine without manual interference
- Option to select the required quantity of fluid required to prepare extrudate from mixture of solid powders.
- Simple extrusion may be at room temperature/hot condition for wet/semi-dry extrusion
- Extrusion capacity: 5 gm to 10 grams per batch
- Digital control system
- **Application:**

The synthesized catalyst materials of various sizes and shapes would be used for loading in fixed bed reactor for carrying out gas/liquid/multi-phase reactions for the development of process for the production of petrochemicals. The effect of shape and size of catalyst on heat and mass transfer of reactant components during reaction will enable to decide right combination of catalyst dimension for process development. The purpose is to study the scalability of catalyst for bench/pilot scale demonstration.

Terms and conditions for instruments

- The supplier must provide installation, commission, and training for a group user from operating the instrument to complete structure determination/solution, general maintenance at site without any additional cost with supply of all the relevant manuals and documents in printed format.
- The supplier must demonstrate that they have appropriate set-up and capability to provide after-sales service effectively in India for prompt service (down time should not be more than 48 hours) support along with number of service engineers specially trained on the offered system.
- Vendor should provide the user list for the same instrument with contact details.
- Necessary safety procedures



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