

CSIR-INDIAN INSTITUTE OF PETROLEUM

DEHRADUN (U.K.) INDIA



BID DOCUMENT

Under TWO BID System
For

**"HIGH PERFORMANCE LIQUID CHROMATOGRAPHY WITH UV/VIS
DETECTOR AND RI DETECTORS"**

Ref No. PUR/1/19-20/JK/ASD/30/PO

Date: 16.07.2019

Last Date/Time of submission: upto 15:00 hrs (IST) on 06.08.2019

Date/Time of opening: at 15:00 hrs (IST) on 07.08.2019

To Be Submitted To

Stores & Purchase Officer
CSIR-INDIAN INSTITUTE OF PETROLEUM

P.O. IIP, MOHKAMPUR,
HARDWAR ROAD, DEHRADUN (U.K), India
Ph: 0135-2525762, 2525945

Telefax: +91-135-2660202-203

website: www.iip.res.in

INVITATION FOR THE BIDS

Ref No. PUR/1/19-20/JK/ASD/30/PO

Date: 16.07.2019

Bids in two parts shall be submitted on CPP Portal (<https://etenders.gov.in>) , Part A(Technical Bid) : containing scanned copy of Earnest Money Deposit (EMD), Documents in support of "Eligibility Criteria", checklist & "Technical Bid" and Part B (Financial Bid): containing Financial Bid valid for 120 days are invited from eligible bidders for supply of "**HIGH PERFORMANCE LIQUID CHROMATOGRAPHY WITH UV/VIS DETECTOR AND RI DETECTORS**" for the INDIAN INSTITUTE OF PETROLEUM (CSIR-IIP), Dehradun as per detail specification provided at the Schedule of Requirement.

1.0 Eligibility Criteria/ Pre-qualification Requirement

- I. The Bidder should be a manufacturer or a dealer specifically authorised by the manufacturer to quote on their behalf for this tender as per manufacturer authorisation form and Indian agents of foreign principals, if any who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification".
- II. Details of service support facilities that would be provided after the warranty period should be submitted in the Service Support Details Form.
- III. In the case of a Bidder not doing business in India, the Bidder is/or will be (if successful) represented by an Agent in India who shall be equipped and able to carry out the Supplier's maintenance, repairs and spare parts, stocking obligations prescribed by the conditions of the contract.
- IV. The Bidder will assume total responsibility for the fault-free operation of equipment, application software, if any.
- V. Bidders who meet the criteria given above are subject to be disqualified, if they have made untrue or false representation in the forms, statements and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, etc.
- VII Bidder should submit valid documentary proof of GSTN and the details of income tax registration (PAN).
- VIII **Bidder should have to submit earnest money deposit (EMD) of Rs 58,000.00 (Rupees Fifty Eight Thousand only) in the form of Bank Guarantee or Demand Draft drawn in favour of 'The Director, I.I.P., Dehradun,' on a scheduled/ nationalized bank payable at Dehradun on or before the Tender submission date and time. Delay in submission of EMD may lead the bid as non-responsive. Only online quotations will be entertained from the registered bidders of CPP Portal (www.etenders.gov.in) and the original EMD should be physically furnished in our institute on or before tender submission date. Please note that those who have submitted EMD earlier need not to submit it again.**
- IX. Bidders should submit quotations in Indian Currency (INR) only for Open Tender.

- 1.1 CSIR-IIP reserves the right to verify/seek confirmation of all original documentary evidence submitted by vendors in support of above mentioned clauses of eligibility criteria. In case any information furnished by the bidder is found to be false /incorrect at any stage, the bid shall be summarily rejected and no correspondence on the same shall be entertained.
- 1.2 The vendor must fulfil the above eligibility criteria/ pre-qualification conditions. Technical bid of vendors fulfilling the pre-qualification conditions will only be evaluated by the duly constituted technical evaluation committee. Bid of vendors not fulfilling the Eligibility- Criteria given above will be summarily rejected. Undertaking for subsequent submission of any of the above documents will not be entertained under any circumstances.
- 1.3 ***Part –A of the bid comprising documents in support of “Eligibility Criteria”, “Technical Bid”, “Earnest Money Deposit” and check list and Part – B “Financial Bid” should be submitted on Central Public Procurement Portal (<https://etenders.gov.in>) in accordance with the instructions/terms & conditions of the tender. .***
- 1.4. An Envelope containing EMD in original addressed to the Director, I.I.P., Dehradun should reach by hand/post at the following address **on or before the Tender submission date and time:**

**The Director,
(K/A: Stores & Purchase Officer),
CSIR-INDIAN INSTITUTE OF PETROLEUM
P.O. IIP, MOHKAMPUR, HARDWAR ROAD
DEHRADUN- 248005, U.K., India**

- 1.5. The “Part A (Technical Bid)” of bid will be opened in the Purchase Section of the CSIR-IIP on the next day (last date of submission of the Bid) at 15:00 hours (IST) in the presence of bidders who choose to be present.
- 1.6 CSIR-IIP will make its purchasing decision based on the ability of the bidder to meet its Labs/Institutes long term needs, technical expertise of the bidder, delivery capability, customer references and price. However, specific criterion used to evaluate bid response is listed in the chapter “Instruction to bidders”.
- 1.7. The Director, CSIR-Indian Institute of Petroleum, P.O. IIP, Mohkampur, Hardwar Road, Dehradun-248005 (U.K) India, CSIR-IIP reserves the right to waive any minor irregularities; accept the whole, accept part of or reject any or all bids.


(Stores & Purchase Officer)

Schedule of Requirements & Technical Specifications

1.1 Scope of the Work:

Supply, Installation, Testing, Commissioning, Support Services and on-Site Comprehensive Warranty Maintenance of the equipment as per detail technical specification given below.

Note: The bidder should undertake to provide support for the supplied systems/sub-systems **for warranty period of one year from the date of installation and commissioning**. The bidders shall be required to confirm their willingness to accept the contract and indicate the terms and conditions in their technical bid along with the corresponding charges in the financial bid.

1.2 Potential suppliers should provide detailed activities time schedule, which represents the shortest practical time to complete all necessary tasks and meet the obligations of the requirements. All significant activities must be included, including those associated with the delivery, acceptance testing, installation and commissioning of the equipments/ products and quality certifications.

1.3 Technical Specifications:

The detailed technical specifications of the equipments/ systems are specified below:

Sl. No	Description	Quantity
1.	HIGH PERFORMANCE LIQUID CHROMATOGRAPHY WITH UV/VIS DETECTOR AND RI DETECTORS (The detailed description of the instrument is given in attached document)	01 (One No.)

Please note that complete set of "Standard Bid Document" is available in our website 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. EMD should be in favour of Director, I.I.P., Dehradun in form of Demand Draft or Bank Guarantee. Please note that those who have submitted EMD earlier need not to submit it again. The scanned copy of EMD should be attached with your Technical Bid.



TECHNICAL SPECIFICATION

High Performance Liquid Chromatography with UV/Vis Detector and RI detectors.
The HPLC must comply with ASTM D6591/IP391-07 and ASTM D7419 methods.

S.No		Specifications
1	Chromatographic Performance	The HPLC must comply with ASTM D6591/IP391-07 and ASTM D7419 methods, without column changing in the same HPLC system.
2	Quaternary Gradient Solvent Delivery System	Flow rate 0.001 to 5 mL/min. in increment 0.001mL/min or better Flow precision: 0.1% RSD or less Flow accuracy: $\pm 1\%$ or better Max operating pressure: up to 5000 psi or more Online degasser, solvent reservoirs Compositional precision $< 0.5\%$ RSD
3	Injector	Operating pressure limits: Programmable high and low low pressure limits, user selectable in psi, bar Manual Injector: A suitable fixed loop manual injector with 5, 20 μ L alongwith 20, 50, 100, μ L Hamilton syringes with 2 sets. Auto Sampler with cooler: 0.1 - 100 μ L in 0.1 μ L increments Auto-sampler carryover: 0.1 % RSD or less Precision/Reproducibility : 0.3% RSD peak areas from 5 μ L to 100 μ L or better At least 70 Samples can be accommodated.
4	Column Compartment (column oven)	(10 $^{\circ}$ C to 85 $^{\circ}$ C) or better, Temperature control precision $\pm 0.5^{\circ}$ C For minimum 4 (30cm) columns can accommodate or better
5	Column Back Flush device	6-port valves-02 No.s and Quick change position with port valve system through soft ware. Automated Back Flush valve capable of operating at system pressure
6	Dual wavelength UV/Vis Detector	Wavelength Range : 190-600nm or better Wavelength Accuracy : ± 1 nm or better Linearity range: ≥ 2.5 AU Drift: $\leq 1 \times 10^{-4}$ AU/hr Band width 8nm or better
7	RI Detector	Data acquisition rate: Up to 80Hz or better Refractive Index range: 1.00 to 1.75 RIU or better Maximum Flow rate: 5.0 ml/min. or better Standard Flow Cell Cell pressure: 5 bar or better Noise: $\leq 2.5 \times 10^{-9}$ RIU

		Drift: $\leq 2.0 \times 10^{-7}$ RIU/hr.
8	Chromatography management software	The chromatography software should be compliant with latest windows based operating system. The software should have standard HPLC software features like interactive graphics, tool bar for online editing, batch data processing, automated baseline correction, peak integration, overlay, baseline compensation, S/N ratio adjustment
9	Column	Two columns of zorbax NH2, 4.6 × 250 mm, 5 μm (p/n 880952-708) with suitable two guard columns with guard fittings for ASTM D6591. One set of suitable columns for IP 391-07 (zorbax NH2, 4.6 × 150 mm, 5 μm (p/n 883952-708) and zorbax SB-CN, 4.6 × 150 mm, 5 μm (p/n 883975-905) connected in series using 0.12 × 70mm SS connector tubing). One set of suitable columns for ASTMD7419 (Lichrosorb Si 60-5, 4.6mm id × 250 mm, 5 μm (p/n L160-5-250A) and zorbax Rapid Resolution SB-CN, 4.6 × 150 mm, 5 μm with suitable guard columns with guard fittings.
10	PC and Printer	The system should be supplied with a branded computer (22 inch monitor) along with double sided printing printer with latest and required configuration for running the system software for data acquisition, data processing and data storing and printing purpose.
11	Other Accessories	Essential spare parts for three years smooth operation. All technical point should be mentioned in origin Lit or Brochure. On-site training: Installation, complete demonstration of the capabilities of the system with standards ASTM D6591/IP391-07 and ASTM D7419 Suitable calibration standards for ASTM D6591, IP391-07 and ASTM D7419
12	Warranty	12 months warranty from the date of commissioning. A certificate from the vendor is required stating that it will provide compulsory ten year service support with required spares after the supply of the instrument

(Section Officer, Stores & Purchase)