



**CSIR- CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE  
MYSORE-570 020, INDIA**

(Constituent Laboratory of CSIR, New Delhi (Ministry of Science & Technology)  
An ISO 9001:2008, ISO 14001:2004 & ISO 17025:2005, NABL Accredited Laboratory



## **Invitation For Bids.**

**Tender No. CFTRI/52253/2019 Date: 02/Jan/2020**

### **Protein Purification with Accessories**

**etender:** For submitting tenders, login to <https://etenders.gov.in/eprocure/app>

**LAST DATE:**

- 1) TENDER SUBMISSION: AT 14.00 HRS (IST) ON 15-Jan-2020
- 2) TENDER OPENING (Technical Bids only): AT 14.00 HRS (IST) ON 16-Jan-2020

**Contact Details:**

**Section Officer (Stores & Purchase)**

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**INSTRUCTIONS TO BIDDERS**

1. The Instructions, Terms & Conditions, General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Annexures and Formats hosted in our website [www.cftri.res.in](http://www.cftri.res.in) [Path: Home page → Tenders → Standard Tender Document (Scrolling Text)] constitutes integral part of this tender.
2. **BOQ (Bill of Quantity)** - Bidders should submit their financial bid in the format provided and no other format is acceptable. BOQ has been given as a standard format along with the tender document. It is mandatory for all the bidders to upload duly filled BOQ (in MS Excel Format) towards submission of their Financial Bid. No changes or modification to the given format is acceptable. Bidders are required to go through the instructions carefully before filling BOQ.
3. **Bid Security (EMD)** – Not applicable for this tender.
4. **Performance Security**- Not applicable for this tender.
5. **Integrity Pact**- Not applicable for this tender.
6. **Warranty Period:** Minimum Two Years from the date of Installation and Commissioning.
7. **Terms of Payment:** The method and conditions of payment to be made to the supplier under this Contract shall be as follows:

**A. Payment for Goods supplied from Abroad:**

Payment of foreign currency portion shall be made in ( ) [currency of the Contract Price] in the following manner:

**(i) On Shipment:** 100 % (Hundred Percent) of the Contract Price of the Goods shipped shall be paid through Cash Against Documents/Wire Transfer/Irrevocable letter of opened in favor of the Supplier upon submission of documents specified in the GCC/SCC.

The L/C will be confirmed at the suppliers cost, if requested specifically by the supplier. All bank charges abroad shall be to the account of the beneficiary i.e. supplier and all bank charges in India shall be to the account of the opener i.e. purchaser. If L/C is requested to be extended/ reinstated for reasons not attributable to the purchaser, the charges thereof would be to the suppliers' account. Payment of local currency portion shall be made in Indian Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed. The LC for 100% value of the contract shall be established after deducting the agency commission payable if any, to the Indian agent from the FOB/FCA value.

**A. Payment for Goods and Services supplied from India:**

Payment for Goods and Services supplied from within India shall be made in Indian Rupees, [INR] as follows:

**On Delivery, Installation and Acceptance: 100 % (Hundred Percent)** of the Contract Price shall be paid on receipt of the Goods, upon submission of the documents specified in GCC/SCC and the Performance Security along with the acceptance certificate issued by the Purchaser.

### **SPECIFICATION FOR PROTEIN PURIFICATION SYSTEM WITH ACCESSORIES**

1. The Preparative chromatography system (Protein Purification System) for laboratory scale only for single step purification
2. The system should purify a wide variety of proteins using built-in quick start methods or predefined templates/customized protocols.
3. The system should be quick and reliable that removes the hassles of manual approaches and provides automated control of the purification procedure. A functional protein purification system having in built in pump, fraction collector, attached computer for visualization, storing, analyzing the data along with the accessories.
4. The system should eliminate the hassles of manual protein purification handling, such as loading large sample volumes and continually monitoring UV readings, and can give you the consistency of yield and purity.
5. The system should be able to make Accurate, Automatic gradient from 0 to 100% gradient over the entire flow range.
6. Should have a flow rate of 0.5-10 ml/min, Accuracy  $\pm 0.1$  ml/min.
7. The system should have a UV detection system ranging 200-400 nm filters.
8. The System should be supplied with fraction collector having a capacity of holding and using: glass polypropylene or polystyrene test tubes of 12-18 mm as well as 1-150 number micro-centrifuge tubes.
9. The absorbance range of the system should be 0.1-5AU (full scale)
10. The conductivity detection range should be 0.05Ms/cm to 300 mS/cm, with temperature monitoring 4-35°C.
11. The System should have a manual sample loading facility, including loops to the volume of 100ul, 500ul, 1ml, 2ml, and 10ml.
12. The System should have inbuilt pH probe with assembly range 0-14 with high accuracy and readability.
13. The system should be provided with software for real time analysis, such as viewing,

controlling and storage.

14. Should be able to provide the following along with the system for smooth running:

A. Fraction collector for collection of 30 fractions

B. The Facility to use the fraction collector in the cold chamber only.

C. Multi Deck Cold chamber of dimensions 450-950ltrs, temp range 0-10°C, 2 doors, 5 and above shelves is basic requirement and has to be provided.

15. Should allow to use 1.5-15ml tubes, with the Fraction volumes between 0.5-15ml

16. Should be supplied with a set of tubing, connectors, ferrules, O-rings and also keys for opening and fitting of ferrules.

17. Should be able to provide three pre packed columns of the following specification:

1. Gel Filtration Chromatography 75- 5x1ml

2. Ni-NTA column- 5x1ml

3. HIC column- 5x1ml

4. Desalting column- 5x1ml

18. The basic things for running the system such as technical brochure and literature of the quoted model should be provided.