



सीएसआईआर-केंद्रीय खाद्य प्रौद्योगिक अनुसंधान संस्थान
CSIR- CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE
मैसूरु / MYSURU-570 020, भारत / INDIA
(Constituent Laboratory of CSIR, New Delhi (Ministry of Science & Technology)
An ISO 9001:2008, ISO 14001:2004 & ISO 17025:2005, NABL
Accredited Laboratory



सं. /No. CFTRI /74165/2018

दिनांक / Date: 30th April 2019

निविदा आमंत्रण सूचना
NOTICE INVITING TENDER

क्रम सं. Sl. No.	निविदा संदर्भ Tender Reference	विवरण / Description
1	A3/74165/2019	Skid mounted integrated membrane processing system – Pilot scale unit Multipurpose cross-flow RO/NF/UF unit (suitable for use with specified solvents) – 1 No.

1. Director, CSIR-CFTRI, Mysuru invites tenders for supply, installation and satisfactory commissioning of Skid mounted integrated Membrane Processing System – Pilot scale unit Multipurpose cross-flow RO/NF/UF unit (suitable for use with specified solvents) – 1 No.
2. Last date for submission of Tender is 2.00 P.M. (IST) on 20/May/2019 on line in etender.gov.in.
3. Bid Security(EMD) NIL
4. Technical Bid Opening on line in etender portal at 2.30P.M (IST) on 21/May/2019

हस्ता./Sd/-

अनुभाग अधिकारी (भंडार एवं क्रय)

Section Officer (Stores & Purchase)

Ph: +91- 821-

2515440/2515447

E-mail: cosp@cftri.res.in, sosp@cftri.res.in

CRITICAL DATE SHEET

Sl. No	Stage	Date & Time
1.	Issue Date & Time	30/April/2019 @ 17.30PM
2.	Last Date & time for receipt of queries	10/May/2019 @17.30PM
3.	Bid Submission Start Date & time	13/May/2019 @10.00AM
4.	Bid Submission End Date & Time	20/May/2019 @ 14.00PM
5.	Bid Opening (Technical) Date & Time	21/May/2019 @ 14.30PM

Specification and Allied Technical details

A3/74165/2019-20

SPECIFICATIONS FOR Skid mounted integrated membrane processing system - Pilot scale unit Multipurpose cross-flow RO/NF/UF unit (suitable for standard flat-sheet membrane test cell and spiral-wound membrane module)

Operating Parameters

Process Fluid	: Hexane-oil miscella
Working pressure	: 60 bar (maximum)
Operating temperature	: 25 - 40 °C
Handling feasibility	: Flat sheet and spiral wound module

Various units of membrane processing system

Feed storage tank	: 1 No
Pump	: 1 No
Flat sheet membrane test cell	: 1 No
Spiral wound membrane system	: 2 Nos
Permeate storage tank	: 1 No
Chiller	: 1 No

Functional specification of various units

Feed tank

Capacity	: 20 L
MOC	: SS-316
Temperature gauge	: 1 No
Valves and piping	: 1 set

Pump

No of pumps	: 1 No
Pump type	: Diaphragm (Hydrocell or equivalent)
Capacity	: 5-30 LPM
MOC	: SS-316
Motor & VFD	: 1 No

Pressure and Flow Control

Pressure gauge	: 2 Nos
Pressure switch	: 1 No
Pressure regulating valve	: 10-60 bar
Rotameter	: 1 No

Membrane systems

Units with necessary valves/ piping (SS-316)

Flat sheet membrane system

Test cell : 1 No (Suitable to accommodate membrane)

Membrane area : 150-200 cm²

MOC : SS-316

Spiral wound membrane system

Modules

1. 1.8" dia x 12" long : 1 No

2. 2.5" dia x 40" long : 1 No

Membrane : Hexane resistant spiral wound NF modules
(Solsep or equivalent)

MOC : SS-316

Permeate storage tank

Capacity : 20 L

MOC : SS-316

Valves & Piping : 1 set

Chiller (to be coupled with recirculation circuit)

Unit with pump & necessary valves and piping / plumbing and draining facility

No of chiller : 1 No

Temperature	: 4 - 6°C
Refrigerant	: Non-CFC
Tank	: MS exterior and Puff insulated SS interior
Capacity	: 5 L
Compressor (Air cooled)	: 1 No
Temperature indicator	: 1 No

General:

1. Entire system must be solvent compliant
2. Manufacturing should follow GMP
3. Entire solvent handling system must be flame proof
4. MOC of the skid - SS 304
5. Power requirements
 - Total connected load
 - Supply - 220 V, 50 Hz, single phase and three phase - 440V, 50Hz.

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.com [Path: Home page → Tenders → Standard Tender Document (Scrolling Text)] constitutes integral part of this tender.
2. Bidders should submit their financial bid in the format provided (Bill of Quantity) and same has to be uploaded in the above etender.gov.in. It is mandatory for all the bidders to upload BOQ 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 the BOQ.
3. Bid Security (EMD) is not applicable for this tender.
4. Performance Security is not applicable for this tender.
5. Integrity Pact is not applicable for this tender.
6. Pre-dispatch inspection and test at manufacturers premises required.
7. Training is required at our site for 2-3 days on operation and maintenance.
8. **Warranty:** Two Years (2 Years) from the date of Installation and Commissioning and acceptance.
9. **Delivery Period:** Delivery should be affected within 3-4 weeks from the date of issue of Purchase Order.
10. **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:

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.

B. 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, training 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 acceptance certificate issued by the Purchaser.