



**RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY**  
 [Institute of National Importance established under the Act of Parliament]  
 Mubarakpur, Mukhtia, Bahadurpur Post: Harbanshganj, Jais, Amethi Pin Code- 229 304

**Website: [www.rgipt.ac.in](http://www.rgipt.ac.in)**

**OPEN TENDER (OFFLINE MODE) HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP**

Type of Tender	OPEN TENDER
Tender No.& Date	RGIPT/JAIS/R&D/OFF-OPN/LAB/2020-21/11 Dated: 31.07.2020
Item Description	Procurement of <b>HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP</b>
Tender Type <b>(OFFLINE MODE)</b>	Two Bid System: Tender should be submitted on the schedule to tender. (i) Techno-Commercial Bid and (ii) Financial Bid  The Financial bid will be opened only of those firms, who will be found technically qualified after evaluation of their technical bids.
Earnest Money Deposit (EMD)	Rs.25000/- (Rupees Twenty Five thousand only) -
Mode of Submission	Offline
Tender Date	31.07.2020 (Friday)
Last date of submission of Tender	27.08.2020 (Thursday) before 3.00 pm
Date & Time of Opening of Techno- Commercial bid	27.08.2020 (Thursday) at 4pm
Date & Time of Opening of Financial Bid	Will be announced later
Place of Opening of Tender	Conference Room, 2nd Floor, RG Plaza Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi, UP
Bid Address to the	The Director Rajiv Gandhi Institute of Petroleum Technology, Mubarakpur, Mukhtia, Bahadurpur, POST: Harbanshganj, Jais, Amethi - 229304
Technical Specification & Other conditions	Name: Dr. M S Balathanigaimani/Dr. Gunjan Kumar Agrahari Department: Chemical Engineering Email: <a href="mailto:msbala@rgipt.ac.in">msbala@rgipt.ac.in</a> / <a href="mailto:gagrahari@rgipt.ac.in">gagrahari@rgipt.ac.in</a> Contact Nos. +91 535 270 4502/4514, 9775885136

Dated: 31.07.2020

Sealed Tenders are invited from reputed Original Equipment Manufacturers/ Authorized Dealers/ Registered Firms for procurement of **HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP** by the Rajiv Gandhi Institute of Petroleum Technology, Amethi- 229304 in **Two-Part Bid System** as per specifications mentioned below:

### ITEM PARTICULARS

**Item Description: HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP**

#### Technical Specifications of HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP

S. No.	Component	Quantity	Specification
1	Hollow Fiber Module	02	<ul style="list-style-type: none"> <li>- Membrane Type: hollow fiber, hydrophobic</li> <li>- Membrane material: Polypropylene</li> <li>- Membrane Fiber Length: up to 75 cm</li> <li>- Membrane average pore size: 0.1 <math>\mu\text{m}</math> or less</li> <li>- Porosity: 0.6 or better</li> <li>- Active surface: upto 3 <math>\text{m}^2</math></li> <li>- pH resistance: 2-11 or better</li> <li>- Number of fibers: approx. 5000 or more</li> <li>- Fiber outer diameter: 300-500 <math>\mu\text{m}</math></li> <li>- Fiber inside diameter: 200-300 <math>\mu\text{m}</math></li> <li>- Cartridge characteristics: <ul style="list-style-type: none"> <li>- Working temperature: 40°C-60°C or better</li> <li>- Maximum working Pressure: 3 bar</li> <li>- Should be provided with ports</li> <li>- Material: Should be non-corrosive, with pH resistance 2-12 or better, made of Polypropylene, or polycarbonate, or stainless steel</li> <li>- Outer diameter: 6 cm - 9 cm or better</li> </ul> </li> <li>- Mode of Operation: <ul style="list-style-type: none"> <li>- countercurrent, or co-current flow of two liquid streams;</li> <li>- Countercurrent or co-current flow of one liquid and one gas stream;</li> <li>- Liquid-sweep gas; Liquid-vacuum</li> </ul> </li> </ul>
2	Pressure gauge	08	<ul style="list-style-type: none"> <li>- Provided on upstream and downstream of both the modules</li> <li>- 0-4 bar range, provided for two incoming and two outgoing streams</li> <li>- Stainless steel body, 2.5 inch or more dial, Glycerin filled</li> </ul>
3	Flowmeter	04	<ul style="list-style-type: none"> <li>- Provided on downstream of both the modules, provided for two outgoing streams</li> <li>- Range: upto 120 liter per hour (LPH)</li> <li>- Acrylic body, stainless steel float</li> <li>- Should be calibrated to measure flowrate in 6 LPH steps</li> </ul>

4	Pumps	04	<ul style="list-style-type: none"> <li>- To generate pressure required for operation, max. 6 bar</li> <li>- Maintain the required flowrate of liquids of specified pH at the specified pressure</li> <li>- Type: diaphragm pumps, equipped with flow-controller, 220 Volts, 50 Hz</li> </ul>
5	Valves	04	<ul style="list-style-type: none"> <li>- Two sampling ports at the downstream of each module</li> <li>- As applicable to maintain flow and pressure</li> <li>- Made of acid, alkali resistant durable material</li> </ul>
6	Storage tanks	04	<ul style="list-style-type: none"> <li>- Made of non-corrosive material such as PP or similar</li> <li>- pH range: 2-12, Capacity: 20 L</li> <li>- Each tank fitted with lid and valve</li> </ul>
7	Structure, pipes & tubes		<ul style="list-style-type: none"> <li>- Polyolefin or polyurethane material connecting all the components appropriately without any leakage, should be flexible</li> <li>- Should be mounted on tough, strong, durable, easily installable structure</li> </ul>
8	Accessories & other details		<ul style="list-style-type: none"> <li>- One set of connecting tubes, One set of connecting ports</li> <li>- Briefcase type enclosure ready to use, made of PP, or aluminum, or better</li> <li>- Flanges &amp; Screws for fixing the module and other components</li> <li>- Should be tested for leak-proof and other inspections before dispatch</li> </ul>
9	Warranty		<ul style="list-style-type: none"> <li>- One year on components</li> </ul>

Note: A marking system will be used to evaluate the bids. The bid that receives more than the threshold mark fixed by the Purchase Committee will be considered for opening of Price Bid.

Place:


Date :

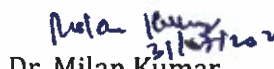
Signature and seal of the Manufacturer/ Bidder

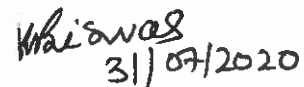
Technical Specifications Compliance Statement of "HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP " should be submitted as per format given in Annexure - I (On the Company's Letter Head)

**Project Purchase Committee:**

  
Dr. G K Agrahari  
Chairman & PI

  
Dr. Amit Ranjan 31/07/2020  
Head, Department of CEES  
& Member

  
Dr. Milan Kumar  
Member

  
Dr. K G Biswas  
Member  
Secretary

## Terms & Conditions

### 1. Tender filling up and submission

- a. Tender offer must refer Tender Enquiry No. RGIPT/JAIS/R&D/OFF-OPN/LAB/2020-21/11 Dated: 31.07.2020 The Tender should be in sealed envelope super-scribed **"HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP to Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi."**
- b. Tender must be submitted either by Speed/Registered post or dropped in the **tender box provided at 1<sup>st</sup> Floor, Administrative Building, Dispatch Section, Mubarakpur Mukhetia, Bahadurpur Post: Harbanshanj, Jais, Amethi- 229 304.**
- c. All prices must be quoted in Indian Rupees, both in figures and in words and the same will be considered for price comparison. Where there is a difference between the two, the rates given in words will be taken as authentic. Should there be any discrepancy between unit rate and amount, the unit rate will be considered as the correct one.
- d. The rates quoted **should include freight charges upto Jais, Amethi** clearly mentioning the percentage/rate of **GST** and the rates quoted should be valid for at-least 60 days from the date of opening of the Tender. **The rates must be quoted both in figures and words** and over writing should be avoided. However all cuttings/corrections must be duly authenticated.
- e. The Tender submitted must not contain any ambiguity. Any such ambiguity in the quote submitted shall make it liable for rejection.
- f. Every page to Tender should be numbered and signed with seal by the bidder.
- g. The Tender document is not transferable.
- h. No amendment to the Tender in any form by the bidder will be permitted after opening of the Tender. No conditional offers shall be accepted.
- i. Submission of Tender will bind the bidder to the acceptance of all conditions specified in the Tender document.
- j. Canvassing in any form is for bidden and will be a criterion for disqualification.

- 2. Earnest Money Deposit (EMD):** The Bid must accompany a crossed Demand Draft of Rs.25000/- (Rupees Twenty Five thousand only drawn on any Scheduled bank and payable at BOB Jais, Campus branch in favor of "Rajiv Gandhi Institute of Petroleum Technology" for earnest money. No interest shall be paid on earnest money deposited.
- a) The EMD of the bidders will be returned after finally award of the Job to a successful bidder/ acceptance of the tender and within reasonable time not exceeding six months from the date of opening of Tender. The EMD will carry no interest.
  - b) The EMD will be forfeited if the bidder withdraws his offer before finalization of the tender.
  - c) In the case of foreign Bidders/Tenderers, the EMD shall be submitted either by the principal or by the Indian agent and in the case of indigenous Bidders/Tenderers; the EMD shall be submitted by the manufacturer or their specifically authorized Dealer/Bidder/Tenderer.
  - d) The EMD shall be in Indian Rupees in the form of Demand Draft in favour of the Rajiv Gandhi Institute of Petroleum Technology payable at Bank of Baroda, RGIPT, Jais Campus Branch.
  - e) The EMD should be submitted in its original form. Copies shall not be accepted.
  - f) The firms registered with MSME, DGS&D & NSIC, if any, are exempted from payment of EMD provided such registration includes the item they are offering which are manufactured by them and not for selling products manufactured by other companies. (Latest Copy must be enclosed for claiming exemption).

3. **Performance Security:** The successful bidder will provide "Performance Security" for an amount of 10% of the contract value in the form of valid Account payee Demand Draft/ FDR from a scheduled bank favouring "Rajiv Gandhi Institute of Petroleum Technology" payable at RGIPT, Jais, Amethi Campus Branch. Performance security should remain valid at least for a period of 180 days beyond the date of completion of all contractual obligations of supplier (**Total Period of Performance Security in the form of FDR/Demand Draft – 5 Years plus 180 days**). Thereafter the security will be returned, provided there is no defect in the equipment supplied.
4. **Bid Validity:** The bid must be valid for 180 days from the date of opening of Technical Bid.
5. **Certificate:** Copy of GST No. & PAN No. must be enclosed along with Tender.
6. **Payment terms:** 100% payment will be released after successful supply and installation of **HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP** at site, i.e. Rajiv Gandhi Institute of Petroleum Technology, Jais, Amethi- 229 304 and subject to submission of your original GST Bill/ Invoice as certified by the Indenter.
7. **Price Validity:** The price quoted by the bidder shall remain valid till the supply is completed. During the tenure of the supply period, no price increase will be considered, except for change in statutory levies imposed by Central Govt. /state Govt. or Local authorities.
8. **Printed Conditions of the Company – Not Acceptable to the Institute:** RGIPT does not accept the printed conditions of any Tenderer. It will be ignored without any reference; hence tenderers should withdraw such printed conditions if they have any. RGIPT shall accept only unconditional tender.
9. **Warranty:** As specified in the technical specification.
10. **Delivery:** The timely delivery is the essence of contract. The supply should be completed with the specified delivery. **Delivery shall be completed within 60 days from the placement of Purchase Order.**
11. **Evaluation Criteria:** The order will be awarded to the vendor, who fulfills all the technical specifications & conditions mentioned in the Tender enquiry document for Technical Bid and whose rate is L1 in Grand total in Price Bid including (**Bidder must submit the technical bid & price bid separately**).
12. **Tender Acceptance and Rejection**
  - a. RGIPT reserves the right to reject the Tender without assigning any reason what so ever.
  - b. RGIPT does not bind itself to accept the lowest or any tender and reserves the right to reject any or all without assigning any reason.
13. **Late Receipt of Tenders:** The Tender received after the due date and time due to postal delay or any other reasons whatsoever will not be considered and no correspondence would be entertained in this regard. Any Tenders received by FAX will not be considered.
14. **Liquidity Damage Clause:** In case of any damages and delay in supply of material, liquidated damages at the rate of 0.5% of the order value per day of delay or part

thereof, subject to a maximum of 5% of the order value shall be recovered from the vendor's bill/invoice.

- 15. Withdrawal of Tender:** The Institute reserves the right to withdraw the tender at any stage of tendering process with the approval of the Competent Authority.
- 16. Replacements of Goods Broken, Damaged or Short:** If whole or part of the goods/ equipment supplied against the order is found defective/ non-functional or without specification the supplier will have to replace the defective goods/equipment to make equipment operational within a reasonable time (not exceeding two months from the date of intimation to the supplier or the Indian Agent), failure to which the supplier will have to refund the full cost of the equipment including freight, Insurance etc.
- 17.** A Tender submitted with false information will not only be rejected but the vendor may also be debarred for participation in future tendering processes.
- 18.** Authorized representative may choose to be present at the time of opening of Tender at their own cost.
- 19. Only one PRICE BID should be submitted for the above equipment. A bidder who submits more than one PRICE BID, shall be disqualified and considered non-responsive.**

**For Exemptions:-**

1. For Customs duty exemption in terms of Govt. Notification No. 51/96- Customs dated 23.07.1996 & 28/03 Customs dated 01.03.2003 and Central Excise duty Exemption in terms of govt. Notification No. 10/97- Central Excise dated 01.03.1997 & 28/13- Central Excise dated 01.10.2013.  
Institute DSIR Notification No. TU/V/RG-CDE(1083)/2016 dated:03.02.2017
2. For GST Exemption Notification No. 47/2017- Integrated tax (Rate).

Sd/-  
Dr. G K Agrahari  
(PI)

**A. Checklist for submission of Tender (For Technical Bid)**

**Envelope -1**

<b>Sr. No.</b>	<b>Description</b>	<b>Enclosed/ Not Enclosed</b>
	The EMD of Rs.25000/- (Rupees Twenty Five thousand only must be attached with the Technical Bid in the form of Demand Draft favouring "Rajiv Gandhi Institute of Petroleum Technology" payable at BOB Jais, Campus. If the EMD is not attached, then the Tender will be automatically rejected.	
1	Copy of GST	
2	Technical Compliance Sheet – <b>Annexure-1</b> <b>(On the letter head of the Company)</b>	
3	Price Reasonability Certificate – <b>Annexure 2</b> <b>(On the Letter Head of the Company)</b>	

**B. Checklist for submission of Tender (For Price Bid)**

**Envelope-2**

<b>Sr. No.</b>	<b>Description</b>	<b>Enclosed/ Not Enclosed</b>
1.	Price Bid Format - <b>Annexure-3</b> <b>(On the letter head of the Company)</b>	

**Signature of the Bidder**  
**With stamp**

**Date:**

**Technical Compliance Sheet of HOLLOW FIBER MEMBRANE CONTACTOR TEST****SETUP****(On the Letter Head of the Company)**

S. No.	Component	Quantity	Specification
1	Hollow Fiber Module	02	<ul style="list-style-type: none"> <li>- Membrane Type: hollow fiber, hydrophobic</li> <li>- Membrane material: Polypropylene</li> <li>- Membrane Fiber Length: up to 75 cm</li> <li>- Membrane average pore size: 0.1 <math>\mu\text{m}</math> or less</li> <li>- Porosity: 0.6 or better</li> <li>- Active surface: upto 3 <math>\text{m}^2</math></li> <li>- pH resistance: 2-11 or better</li> <li>- Number of fibers: approx. 5000 or more</li> <li>- Fiber outer diameter: 300-500 <math>\mu\text{m}</math></li> <li>- Fiber inside diameter: 200-300 <math>\mu\text{m}</math></li> <li>- Cartridge characteristics: <ul style="list-style-type: none"> <li>- Working temperature: 40°C-60°C or better</li> <li>- Maximum working Pressure: 3 bar</li> <li>- Should be provided with ports</li> <li>- Material: Should be non-corrosive, with pH resistance 2-12 or better, made of Polypropylene, or polycarbonate, or stainless steel</li> <li>- Outer diameter: 6 cm - 9 cm or better</li> </ul> </li> <li>- Mode of Operation: <ul style="list-style-type: none"> <li>- countercurrent, or co-current flow of two liquid streams;</li> <li>- Countercurrent or co-current flow of one liquid and one gas stream;</li> <li>- Liquid-sweep gas; Liquid-vacuum</li> </ul> </li> </ul>
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5	Valves	04	<ul style="list-style-type: none"> <li>- Two sampling ports at the downstream of each module</li> <li>- As applicable to maintain flow and pressure</li> </ul>



			– Made of acid, alkali resistant durable material
6	Storage tanks	04	– Made of non-corrosive material such as PP or similar – pH range: 2-12, Capacity: 20 L – Each tank fitted with lid and valve
7	Structure, pipes & tubes		– Polyolefin or polyurethane material connecting all the components appropriately without any leakage, should be flexible – Should be mounted on tough, strong, durable, easily installable structure
8	Accessories & other details		– One set of connecting tubes, One set of connecting ports – Briefcase type enclosure ready to use, made of PP, or aluminum, or better – Flanges & Screws for fixing the module and other components – Should be tested for leak-proof and other inspections before dispatch
9	Warranty		– One year on components

Note: A marking system will be used to evaluate the bids. The bid that receives more than the threshold mark fixed by the Purchase Committee will be considered for opening of Price Bid.

**Please mention the brand and model no. & name of the equipment:**

**Date:**

**Signature of the Bidder with stamp**

**Annexure - 2**

**Price Reasonability Certificate**  
**(On the Letter Head of the Company)**

It is certified that the rates quoted against Tender No. .... Dated ..... for the items vide our bid No. ....dated ..... are exclusively for supply to ACADEMIC and RESEARCH Institutions and are not more than as charged to other Govt. /PSU's for similar supplies made in recent past. If they have been approved by the Director, RGIPT and if at any stage it has been found that the quoted rates are higher than the rates applicable to supply to Government then in such condition RGIPT, Amethi will have the right to cancel the approved rates and to take legal action against the bidder.

Yours Faithfully,

(Name of Manufacturers)

(Signature with Date)(Name and designation)

Duly authorized to sign tender for and on behalf of

**Annexure – 3**

**Price Bid Format for HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP**  
**(On the Letter Head of the Company)**

Si. No.	Item Description	Quantity Required	Unit Rate (INR)	Total Rate (INR)
1	<b>HOLLOW FIBER MEMBRANE CONTACTOR TEST SETUP</b> (Technical Specification as per Tender Enquiry)	01		
	<b>Sub Total</b>			
	<b>Add: Taxes (GST)* @5%</b>			
	<b>Add: Freight Charges</b>			
	<b>Grand Total (F.O.R, RGIPT, Jais Price)</b>			

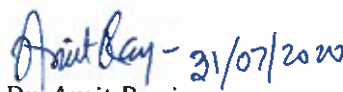
**Note:** Institute will provide GST exemption certificate.

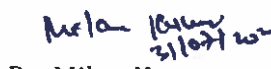
**Signature of the Bidder with stamp**

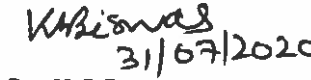
**Date:**

**Project Purchase Committee:**

  
Dr. G K Agrahari  
Chairman & PI

 - 21/07/2020  
Dr. Amit Ranjan  
Head, Department of CEES  
& Member

  
Dr. Milan Kumar  
Member

 - 31/07/2020  
Dr. K G Biswas  
Member  
Secretary