

**BHARAT IMMUNOLOGICALS & BIOLOGICALS CORPORATION LIMITED  
(BIBCOL)**

(A Govt. of India Undertaking)  
OPV SITE, CHOLA, BULANDSHAHR(U.P.)

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Last Date of submission of tender: 08.01.2020 at 02.00 P.M.  
Date of opening of Technical Bid: 08.01.2020 at 3.00 P.M.

**1. INTRODUCTION:**

Bharat Immunologicals & Biologicals Corp. Ltd. (BIBCOL), A Govt. of India Undertaking, under administrative control of Ministry of Science and Technology, located at Village-Chola, Distt- Bulandshahr (UP), about 70Km away from Delhi at Old G.T. Road connecting Sikandrabad to Khurja, has been engaged in manufacturing Vaccine for the last twenty five years with contributing significantly in National Immunization Programme.

**2. OBJECTIVE:**

BIBCOL invites sealed tenders from **reputed & experienced Manufacturers/Suppliers only** for the supply of **TFF Systems** as per Annexure 'A'.

**3. INSTRUCTION TO TENDERERS:**

Tenders should be submitted in two parts separately in two sealed envelopes super scribed as Techno Commercial Bid and Price Bid respectively & two envelops should be kept in large envelop duly super scribed as Bid for the "**Supply of TFF Systems**" - not to be opened before 08.01.2020 at 3.00 P.M. on the left of top side of envelope addressed to Associate Vice President (P), Bharat Immunologicals & Biologicals Corporation Limited, (A Govt. of India Undertaking), Oral Polio Vaccine Plant, Village-Chola, Bulandshahr - 203203 (UP). If you wish to send your offer through courier, please prefer only DTDC and write PIN Code 203 001.

**4. TECHNICAL BID:**

Techno Commercial bid should essentially consists of Name of firm, address, type of establishment along with certificates, contact person name, list of clients, GST registration details, PAN, Production capacity, Annual Turnover along with detail technical specifications of the product with catalogue, etc.

**5. PRICE BID:**

Price Bid will essentially consist of item wise basic cost, duties, taxes and packing and forwarding charges, freight charges, insurance charges and other terms and conditions etc. Techno-Commercial bid will be opened on the due date and price bid will be opened after evaluation of Techno Commercial Bid by the committee constituted by competent authority. The date of opening of price bid will be separately communicated to successful bidders and the price bid of technically rejected party will not be opened but will be returned to unsuccessful bidders.

**6. EMD:**

Bidder has to submit EMD in the form of DD for rupees 25,000/- (Rupees Twenty five thousand only) in favour of **BIBCOL** at Bulandshahr (UP) **alongwith Technical bid. (Firms registered under Micro Scale Industry & Small Scale Industry are exempted from EMD).**

### **Terms and conditions**

1. The quantity mentioned is tentative and it may be increased or decreased.
2. There is no prescribed form for submitting the quotation in this case and the bidder may use his own letter head or quotation form for this purpose.
3. **The prices are to be quoted for delivery F.O.R. OPV Site, Village Chola, Bulandshahr-203001 (UP).** Taxes, other Govt. levies and packaging forwarding transit insurance etc. must be clearly indicated. Your quotation will be treated as firm offer and must remain open for the period of at least three months. No revision, amendment or withdrawal will be permissible during this period.
4. BIBCOL may visit at your plant to see the facility before issuing the actual order.
5. No figures or words should be overwritten. Incorrect figures or words should be scored out and rewritten under your signatures.
6. Supplies must be of first class quality and in accordance with our specifications only.
7. You are at liberty to be present or authorize a representative to be present at the opening of the bids at the specified time and date.
8. BIBCOL reserves the right not to accept the lowest or any tender or part there of without assigning any reason.
9. Quotations received after the due date and time will not be accepted.
10. Incase of any dispute, the decision of the Managing Director, BIBCOL shall be final and binding on both the parties.
11. No post-tender communications will be entertained unless it is solicited in writing.
12. The Court of Jurisdiction will be at Buland Shahr(UP)

Read and accepted the terms and condition:

Name:

Designation:

Company name:

Address:

Telephone No:

Mobile No.

E-mail:

**ANNEXURE A**

**Technical attributes of TFF system**

Complete Tangential Flow Filtration (TFF) system including the holder, cassettes, tank, pump, and tubing.

<b>S. No.</b>	<b>Part</b>	<b>Specification</b>	
1	<b>Holder with wrench torque</b>	Manufacturer	M/s Sartorius Stedim India Pvt. Ltd.
		Item No.	17521---002
		Requirement	01 number
		Brief description	Sartorius filter slice holder for production of microbial products at lab scale with low cost alternative
		Manufacturing	Compliance of cGMP guidelines
		Design and functional specifications	<ul style="list-style-type: none"> <li>- Design of the filtration system shall be as per cGMP norms with no dead legs for accumulation of dirt/product, should permit easy cleaning.</li> <li>- System should be designed to have maximum the product recovery in efficient way.</li> <li>- The holder design shall be sanitary type to allow complete drainage and product removal after use.</li> <li>- The holder design should be universal type ie. It should be capable to hold cassettes from the other suppliers also.</li> <li>- It is designed for low to medium volume applications from 200 ml to 100 L.</li> </ul>
		Type	Slice holder for 5 cassettes
		Connectors	3/4" Tri Clamp sanitary flange
		Electro Polished	Electro Polished
		Feed / Retentate	10 mm
		Permeate	10 mm
		Filter- and Clamping Plate	316L (1.4404/1.4435) stainless steel
		Additional Product Specifications	Nuts for tie rods: Bronze
		Maximum Number of the Cassettes	The holder should be capable of holding cassettes up to 05 cassettes ranging from 0.1 to 0.5 m <sup>2</sup> .
		Surface Roughness of Wetted Parts	Ra <= 0.6 µm
		Weight	10 kg (approximate)
Dimensions	W – 120mm, D – 190mm, and H - 225 mm		
Pressure gauge	Three each at feed, retentate and permeate line ranging from (0 to 5 bar).		

		Volume application	Designated for low to medium volume from 200 ml to 100L.
		Flow meter (If available)	Flow meter required to measure cross flow and NWP at feed, retentate, and permeate lines
		External and internal body	-Non-corrosive - Non-shedding -Non-rusting surface of outside and inside the body
		Integrity provision	Port to be provided for performing filter integrity test with external instrument.
2	<b>Cassettes/ Filter membrane</b>	Manufacturer	M/s Sartorius Stedim India Pvt. Ltd.
		Type	Two types cassettes shall required for Microfiltration and Diafiltration
		Microfiltration	- Membrane pore size 0.2µm - Membrane area 0.1 m <sup>2</sup> - Hydrosart membrane type -The membranes should be easy to fit and compatible with membranes holder dimension 120X190X225 mm (WXDXH). - Requirement 06 numbers
3	<b>Pump</b>	Brief description	To feed pressure in TFF system manually.
		Mode	Manual operation to control TMP
		Pump output	700 l/h @ 4 bar (60 psi)
		Maximum inlet pressure	4 bar (60 psi)
		Electrical requirement	120 VAC or 60 Hz 4 Amp
		Requirement	02 numbers
4	<b>Connecting Tubing</b>	Brief description	- The tube shall be used to connect pump, membrane holder & other lines. -The tube shall be connecting easy and compatible to the other parts of the TFF system.
		Material of construction	Silicon
		Autoclavable	Yes
		Requirement	30 meters

**Other features:**

- 1.cGMP model/guidelines
- 2.Operating manual
- 3.Maintenance and Service manual
- 4.IQ and OQ protocols
- 5.Cleaning in process (CIP)
- 6.Preservation of filter within the filtration system
- 7.Piping & instrumentation diagram (P&ID) and electrical diagram and other necessary diagrams

8. MOC certification of the material used in fabrication of unit including all product contract parts.
9. Validation certificate for the filters
10. Service support agreement
11. Installation and Training on the operation and maintenance
12. At least 12 months warranty from the date of installation

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