

Ref: INS/L-5463/2018-2019(Y)

Date : 13/08/2018

## ENQUIRY

Dear Sirs,

Please let us have your lowest Quotation for the following:

Sl.No	Cat.No	Item Description	Make/Model	Item Qty	UOM
1		RO Water plant 750 LPH (As per the specification attached)		1.00	No.

**Remarks :** The Price quoted against this RFQ should be extended to Bangalore Life Science Cluster (BLiSc) of NCBS, InStem and C-CAMP for placing repeat order as per norms, by any one or all institutes of Bangalore Life Science Cluster (BLiSc)\*\*inStem is a public funded research institute and is entitled to concessional rate of GST @ 5% for items supplied for research purpose. The offer should be submitted after fully considering the above notification. \*\*

**Note : The Tenders to be quoted in foreign currencies & any other currencies approved/traded by RBI - USD/Euro/JPY/GBP/SGD/CAD/INR.**

1. The bids shall be enclosed in an envelope , and due date sealed duly marked "Tender for \_\_\_\_\_" Ref No : \_\_\_\_\_. The bids should be addressed and to be mailed to "THE HEAD-PURCHASE". The bids are liable to be rejected if the sealed envelope is not addressed to "THE HEAD-PURCHASE" with Tender Ref No and Item Description and due date. The bids delivered in person shall be dropped in Purchase Section. If the bids are sent through courier or mail , it should reach by submission Date and Time and inStem will not be responsible for the delay.

**2. DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS  
31/08/2018 till 2.00 p.m.**

3. QUOTATIONS RECEIVED AFTER THE DUE DATE SHALL BE REJECTED.

4. The Validity of your quotation should be for 60 days from the date.

5. All duties, taxes, surcharge and cess as currently applicable must be stated in your quotation, separately. Otherwise your quote is liable to be rejected.

6. Your quotation should indicate delivery period & Warranty period.

7. Delivery to be made to our Stores. Please indicate charges, if any extra. Transit Insurance should be done upto inStem Stores.

8. If you are unable to supply the quality, specifications or brand as mentioned in our enquiry, Please state so and then offer alternative to quality/Specifications.

9. Payment : within one month after delivery & acceptance/satisfactory installation.

10. Please ensure that the enquiry number and the due date is superscribed on the envelope failing which your quotation is liable to be rejected.

11. Since we are a public funded research institution, we are exempted from paying Customs Duty (Except ad valorem duty of 5% + 2% cess and CVD @ 4% vide Notification No. 51/96 with latest amendments) and excise duty vide Notification No. 10/97 CENTRAL EXCISE dated 01-03-1997 for all scientific equipments, technical instruments, equipments (including computers), their accessories, spares, consumables and software. Hence, please offer your prices taking this option into consideration.



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**12.If the item is covered under DGS&D rate contract,please quote the rate as per the DGS&D rate contract with xerox copy of the DGS&D order.**

13.Any dispute or differences that may arise between the parties shall be referred to the sole arbitration of the Centre Director or his nominees.The decision of the arbitrator shall be final and binding on the parties.The venue for arbitration shall be Bangalore.The provisions of the Arbitration and Concillation Act,1996 as amended from time to time shall apply.The Courts in Bangalore shall have exclusive jurisdiction to deal with any or all disputes between the parties.

Yours faithfully

For and on behalf of Insitute For Stem Cell  
Biology and Regenerative Medicine



Yesu R



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INS/L-5463/2018-2018(Y)		Specifications of RO WATER SYSTEM	
1	<b>Raw Water Feed Pump</b>		
	Quantity	:	1 no Horizontal
	Capacity	:	2000LPH
	Discharge Capacity	:	3Kg/cm2
	MOC	:	cast Iron
	Motor Rating	:	2 HP
	Preferred Make	:	Kirloskar/Grundfos/Equivalent
2	<b>Pressure Sand Filter (PSF)</b>		
	Quantity	:	1 No. Vertical, Floor Mount
	Capacity	:	2000LPH
	Min./Max Operating Pressure	:	1.5kg/cm2- 3.5kg/cm2
	MOC of Vessel	:	FRP
	Media	:	Support bed+sand
	Type of valve	:	Single-multiport
	Preferred Vessel Make	:	Pentair/ Grundfos/Zeolite/Equivalent
3	<b>Activated Carbon Filter (ACF)</b>		
	Quantity	:	1 No.
	Capacity	:	2000 LPH
	Min./Max Operating Pressure	:	1.5kg/cm2-3.5kg/cm2
	MOC of Vessel	:	FRP
	Media	:	Support bed+carbon
	Type of valve	:	Single-multiport
	Preferred Vessel Make	:	wave/Pentair/wave/Grundfos/Zeolite/Equivalent
4	<b>Antiscalant Dosing System</b>		
	Quantity	:	1 No.
	Type	:	Electro-magnetic
	Capacity	:	1.5- 3LPM
	Discharge Pressure	:	4kg/cm2
	Preferred Make	:	E dose/ Pentair/Grundfos/Zeolite/Equivalent
	<b>Dosing Tank</b>		
	Quantity	:	1 No.
	Capacity	:	100Litres
	Material of Construction	:	HDPE/PP
	Preferred Make	:	Sintex/Equivalent
5	<b>Micron Cartridge Filter</b>		
	Quantity	:	2 No.
	Capacity	:	2000 LPH
	MOC of Housing	:	ABS
	MOC of Cartridge	:	PP
	Filter Rating	:	5/10 micron
	Size	:	20" Long
	Preferred Make	:	Pratham/Equivalent
6	<b>High Pressure Pump</b>		
	Quantity	:	1 No.



	Type of Pump	:	Vertical Multistage
	Capacity	:	2000 LPH
	Discharge Pressure(Maximum)	:	13kg/cm2
	Material of Construction	:	SS 304
	Preferred Make	:	Nanfeng/ Pentair/wave/ Grundfos/Zeolite/Equivalent
<b>7</b>	<b>Reverse Osmosis System</b>		
	Quantity	:	1 No.
	Permeate capacity	:	700-800 LPH
	SALT Rejection	:	90% to 95%
	Permeate water	:	50 to 60% of raw water feed
	Membrane Type	:	Spiral wound/Brackish water
	No. Of Membrane	:	3 nos.
	No. Of Membrane Housing	:	3 nos.
	MOC of Membrane Housing	:	SS
	Skid Material of Construction	:	MS powder coated
	Piping MOC	:	UPVC
	Preferred Membrane make	:	TORAY JAPAN, Hydranautics, Filmtec, Tricorp/Equivalent
	Electrical Control Panel	:	1 No.
<b>8</b>	<b>U V System</b>		
	Quantity	:	1 No. with 2 no's of spare lamps
	Preferred Make	:	Sukrut/ASIA LMI/Zeolite/Equivalent
	Flow rate	:	1200LP H
	<b>PH Correction Dosing system</b>		
	Equipment Required	:	Electronic Dosing Pump with solution Tank
	Preferred Make	:	ASIA LMI/Zeolite/ Equivalent
	Material of Construction	:	PP
	Discharge@Max Back Pressure	:	2.88 Lit/Hr.@8Bar
	Discharge@Nominal Back Pressure	:	3.12 Lit/Hr.@4Bar
	Material of Construction	:	HDPE
	Tank level switch	:	2 no's
<b>9</b>	<b>Instrument List</b>		
	Wet Panel		MS Powder coated
	Pressure gauges	:	Min 3 Nos.
	High/Low Pressure switches	:	Min 2 Nos.
	Digital Conductivity meter with sensor	:	Min 1 No.
	Rate of flow indicators	:	Min 1 No.
	Level switch	:	Min 2 No's.
	ON/OFF Selector Switch	:	1 no
	Auto Flush Timer	:	1 no
	ORP Meter	:	1 no
	Indication Lamps	:	One set
	Product Flow Meter	:	1 no
	Reject Flow Meter	:	1 no
	Reject Re-circulation Meter	:	1 no
	Alarm	:	1 no





<b>10</b>	<b>Interconnecting Piping</b>		
	Interconnecting Piping Material	:	UPVC
	Raw water tank to feed Pump suction and Feed pump delivery to RO Inlet (up to High pressure pump inlet) and RO outlet to Treated water tank)	:	Food Grade PVC pipe 40mmNB
	Preferred Make	:	Finolex/Supreme
	PipeSize	:	1"
	Pressure Rating	:	18Kglcm2
	Approximate Length	:	30Meter
	High pressure pump outlet to membrane inlet	:	SS pipe of required size
<b>11</b>	<b>Skid</b>		
	Skid Mounted Model	:	Skid MS Powder Coated
<b>12</b>	<b>STORAGE Tank with high quality, foodgrade outdoor system</b>	:	2000 litres
	Preferred Make	:	Sintex/Equivalent

**14.** The system should have 3 Years warranty period and cost of all consumables like salt, antiscalant, cartridge, spares, and services etc., to be included. The offer should include an anti-scaling setup with required tank and chemicals. Preventive maintenance & Breakdown should be borne by the vendor during the warranty period.

**15.** The supplier has to verify all the components of RO Plant to meet the specifications as per P.O and has to provide the test report of components of RO Plant.

**16.** The vendor has to verify the rated capacity and quality of output water of RO Plant and has to arrange the testing of RO Plant output water at a reputed laboratory at his own cost

**17.** The service provider should have the base in Bangalore. Office address and service Engineer contact details should be enclosed with the quotation.

**18.** The quoted system should be CE/ISO Certified

