



Ref: INS/L-5620/2017-2018(Y)

Date : 17/10/2017

### 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		Laboratory grade water purification system-Type II (As per specification attached)	-	1.00	No.

#### Remarks :

#### Note :Quotation in USD, GBP, YEN, EURO, CND, SGD, ect will be acceptable.

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

**31/10/2017 till 5.30 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 sated in your quotation,seperately.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 advolerum 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.



**Institute For Stem Cell Biology and Regenerative Medicine**  
Autonomous institute of the Department of Biotechnology, Government Of India



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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

A handwritten signature in black ink, appearing to read 'Yesu R'.

Yesu R



GKVK, Bellary Road, Bangalore-560065,INDIA

Phone No. : 91-80-23666343/344/345/346

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Website : www.ncbs.res.in



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## **Specification of Laboratory Water Purification System Type II Grade**

- 1) System should be stand-alone Type-II water purification system, suitable for Biological research application.
- 2) System should be suitable to work with feed water quality of up to  $2000\mu\text{S}/\text{cm}$  conductivity, Fouling Index (Slit Density Index)  $<7$ , total Chlorine  $<3\text{ppm}$ , pH 4-10.
- 3) System should have Pre Filtration unit to counter dust particles, bacteria etc. The sequence of Pre-filtration should be 10 Micron filter, 5 Micron filter followed by 1 Micron filter.
- 4) System should have Pretreatment Cartridge with Activated Carbon and 0.5 Micron Filter.
- 5) System should have High Quality Thin film composite membrane RO which should be capable of achieving 99% rejection of Ions and dissolved organics.
- 6) System should have Cartridges with high recovery loop to reduce the wastage of feed water to drain. Also it should have conductivity cell before and after RO to measure performance of RO membrane. RO waste water recovery should be up to minimum 50%.
- 7) System should produce purified Type -II water of conductivity  $\leq 0.2\mu\text{S}/\text{cm}@25^\circ\text{C}$ , Resistivity  $\leq 5\text{-}15\text{M}\Omega.\text{cm}$  @ $25^\circ\text{C}$  and Total organic Carbon (TOC)  $\leq 50\mu\text{g}/\text{liter}$ .
- 8) The capacity of the system should be minimum 40 liter/hour.
- 9) The output water quality from the system should be particle free and organic free.
- 10) The output water quality of the system should have silica contamination  $\leq 5\text{mg}/\text{liter}$ , chloride contamination  $\leq 5\mu\text{g}/\text{liter}$ , Total Silica  $\leq 3\mu\text{g}/\text{liter}$ , Bacteria contamination  $\leq 10\text{CFU}/\text{ml}$ .
- 11) System should have the Electro De-ionization module (EDI Module) or equivalent module, for the regeneration of Resins.
- 12) System should have UV light treatment with wavelength of 185 and 254nm.
- 13) System should have storage capacity 100 liter with material of construction suitable to store Type II Water. Storage tank should be controlled by water purification unit. Tank should have valve for drain and dispense.
- 14) System should have suitable display and user friendly GUI to check all running parameters related to purification, storage and distribution.
- 15) System should have Auto diagnostic facility with Error Number and Alarm Code and real time clock to log reports with date and time to ensure complete traceability.
- 16) System should have Automatic Cleaning, Rising, and Flush mode. System should have built in TOC indicator with the ability for self-calibration and check curve display.
- 17) System should be able to check measuring value before and after each filtration stage in order to measure performance of filtration unit.
- 18) System should give an alert on performance degradation in order to plan inventory.
- 19) System should have Real-time data with on-line measurements should be available on the system.
- 20) System should have compatibility to place either on the bench, under the bench or on the wall.
- 21) The system should be CE/ISO Certified
- 22) The system should be supplied with all the accessories required to function.
- 23) System should have warranty of 3 years.
- 24) Compliance to each of the above points should be separately indicated and evidence presence for each of them (Product brochures should be highlighted wherever required).
- 25) The system should supplied with all the necessary spares and consumables with the main offer.

