

Notice Inviting e-Tender

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PROCUREMENT OF MEDICAL EQUIPMENT FOR FIVE NEW MEDICAL COLLEGES AND HOSPITALS

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL /NIT-19/2021

Dated –15.01.2021

The following amendments have been made in the tender document. The changes are highlighted below in **yellow** colour,

Amendment-V: (Revised Technical Specifications)

Name of the Discipline: PATHOLOGY				
Sl. No.	Item Sl. No.	Name of the Equipments (Item)	Specification	Total Qty for 5 MCH
1	1	Ultrapure water purification system	<ol style="list-style-type: none">1. It should be standalone single stage combined system (Type1 & 2) to produce Endotoxin and bacteria free ultrapure water Type 1 and Type 2 directly from potable water supply.2. System should be capable of providing ASTM Type I (18.2 Mega ohm resistivity) Water and have the UF cartridge to cater Biological applications and analytical applications.3. System should be capable of providing ASTM Type II (1-10 Mega ohm resistivity) Water from potable tap water4. System has feed water acceptance level of Conductivity upto 1500 μS/cm or more, Fouling Index (SDI) > 3 and Total Chlorine less than 0.1 ppm or more	5

5. System should have a pretreatment kit with 1µm filter, Harness Stabilizer and Carbon
6. System should have RO Flow rate 10 Ltr/Minute or more
7. Type 1 water flow rate should be equal to more than 1 Ltr/Minute
8. Reverse Osmosis module is made up of thin film composite polyamide RO membrane with rejection rate of 94 - 99%
9. System has feed water specific Purification pack before UV lamp consisting of mixed bed ion exchange resin/ micro filter / activated carbon to ensure better purification and longer life of the cartridges.
10. System should be based on the DI based technology to avoid the wastage water and cost of replacement.
11. System should have dual wavelength 185/254 nm for UV-oxidation for reducing the content of microorganisms and their metabolites to ensure the quality of Type 1 water
12. UF life must be 2 years to give RNase/DNase/Pyrogen free water to avoid regular cost.
13. Type 2 water available from separate conical bottom storage tank. Tank Water should have the recirculation feature to recirculate through High Purity Cartridge to maintain purity and avoid stagnancy.
14. Reservoir of equal or more than 60 Ltrs conical bottom PE tank /storage unit with auto cutoff level sensors. Stored water level can be adjusted as lab needs change
15. Additional hand dispenser to dispense type 2 water is required.
16. System be compatible for onsite IQ/OQ(Onsite Validation)

17. Production rate of Purified Water @ 10 ltrs/hr or more

18. System should be quoted with Two set of Consumables including RO as optional

19. Water quality should be as below:

Ultra Pure (Type I) water:

Resistivity.....18.2

Mega Ohms.cm @ 25 Degree C.

TOC < 5

ppb

Bacteria < 0.01

cfu /ml or better

Particulates (.22 micron)..... < 1 /ml

RNase.....< 0.003

ng/ml or better

DNase.....< 0.4

pg/ml or better

Endotoxin.....0.001

EU/ml or better

Flow rate≥ 1

Ltr/Minute.

Ultra Pure (Type II) water:

Resistivity..... > 1

Mega Ohms.cm @ 25 Degree C.

TOC < 30

ppb