

कार्यालय- प्रधानाचार्य, राज.स्वा.वि.वि. आयुर्विज्ञान महाविद्यालय, जयपुर

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No. RUHS-CMS/Store/2018-19/ 17899

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तकनीकी निविदा में संशोधन

राजस्थान स्वास्थ्य विज्ञान विश्वविद्यालय आयुर्विज्ञान महाविद्यालय में स्वाईन फ्लू एवं वी.आर.डी. एल. ब्रैब की स्थापना हेतु आवश्यक उपकरण Distilled water filtration plant for nuclease free water on molecular grade + R.O + Extra filter + Water tank क्रय किये जाने हेतु जारी ई-निविदा सूचना संख्या 14989 दिनांक 03.10.2018 में राजस्थान लोक उपापन में पारदर्शिता नियम 2013 के नियम 46 के अनुसार आयोजित प्री-बिड बैठक में प्राप्त प्रतिवेदनों पर विभागीय तकनीकी समिति द्वारा की गयी अभिशंका का अनुमोदन महाविद्यालय क्रय समिति द्वारा किये जाने के पश्चात् निविदा में वर्णित उपकरण के स्पेसीफिकेशन को निम्नानुसार संशोधित किया जाता है -

Distilled Water Filtration plant for nuclease free water on Molecular Grade + R.O. + Extra filter + Water Tank

PRETREATMENT:

External RO of 15 litre per hour capacity with 200 ltr rectangular HDPE tank and 3 stage pretreatment including 5,1 μ filters and Activated carbon cartridge for added advantage over contaminated water quality and also enabling replacement "on demand" to save recurring cost.

FIRST STAGE:

A SINGLE UNIT microprocessor controlled system to produce Laboratory grade ASTM Type II water suitable for General Lab applications including buffer and dilution preparations and feed to Type I system with a production rate of ≥ 15 litre per hour or better from a single / compact duplex unit. It should have RO, Deionization module which do not need replacement at least 3 years of operation/ EDI and UV inside the system. Deionization module which do not need replacement at least 3 years of operation. Whole water should pass through all three technologies. It should be able to take a potable tap water according to International norms as a feed. System should be upgradeable to higher flow rates. System should have remote dispenser of at least 3 meter.

The feed water quality testing should be provided by supplier and may provide additional accessories to meet the actual levels of contaminations.

The system should be capable of bench/wall mounting installation (If any accessory required it should be quoted) with tank and clear backlit display with modes, RO performance (ionic rejection %) and reservoir fill-level status. The system should be GLP compliant and should be able to automatically collect data with RS 232 port/ Ethernet in accordance with international guideline. The system should be capable of Validation. It should have cell constant of 0.01/cm with temperature compensation of 0.1 degree. System should have recirculation pump to recirculate water through tank.

The system must have provision to auto stop with alarm if feed water is not there to avoid dry run and saving RO pump.

The product water quality should be as follows:

Resistivity: Clearly 10-15 M Ω .cm ("Typically" "May be" will not be accepted)

TOC: <50ppb

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Bacteria removal: >99%

Particle: >99%

SECOND STAGE(STORAGE)

The water should be stored in 100 liters compatible tank with UV lamp inside the tank to maintain prolong storage of tank water, tank should be made up of pigment free polyethylene. The tank should be cylindrical and 100 % drainable to avoid bacterial growth and to minimize surface area. It should be supplied with a vent filter to avoid air borne contaminations. This water should go as a feed into microprocessor controlled Type I system which should be able to produce water for Molecular Biology applications.

THIRD STAGE(ULTRAPURE)

System should be able to give at least 15 Ltr/day of Type I water. It should have Variable dispensing of water from drop by drop to quick dispensing, volumetric dispensing. The system should be equipped with inbuilt high capacity ultrafiltration cartridge in order to avoid frequent replacements. System should use Ultra filtration. It should have a provision of monitoring feed water quality and conductivity cells with cell constant of 0.01/cm for accurate measurement enabling elongated consumable up to 3 year minimum life time. Conductivity should be displayed. It should have a suitable sensor/alarm to monitor UV intensity. It should be able to quickly replace a cartridge without wasting time and water avoiding air purging etc. The systems should be GLP compliance and can be validated. System should have high capacity deionization cartridge for longer life. The final water quality should be as follows:

Resistivity: 18.2 MΩ cm

TOC: 1-5 ppb

Bacteria: <0.01 cfu/ml (Should be supported by evidence in terms of research/R&D paper using similar system or technologies)

Particles: <1/ml (0.22 micron)

Endotoxins: 0.001 EU/ ml

DNase: <0.4 pg/ µl (Should be supported by evidence in terms of research/R&D paper for related technology used)

RNase: <0.003 ng/ ml (Should be supported by evidence in terms of research/ R&D paper for related technology used)

Flow Rate: up to 1.5 - 2 lit/min

Vendor must provide warranty / CAMC with consumables for 3 years. The vendor must provide at least 3 years of satisfactory performance certificate from at least 5 Govt. organizations.

Three year warranty including all types of cartridges to be changed as and when required

उपरोक्तानुसार संशोधित स्पेसीफिकेशन के अतिरिक्त निविदा प्रपत्र में वर्णित अन्य शर्तें पूर्वानुसार यथावत् मान्य होंगे। निविदा में भाग लेने वाले निविदाताओं को निर्देशित किया जाता है कि वे उपरोक्त परिवर्तन के अनुसार ही निविदा प्रस्तुत करें।


(प्रधानाचार्य)

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