

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

Office of the Principal, RUHS College of Medical Sciences, Jaipur

(Constituent College of Rajasthan University of Health Sciences)

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No. RUHS-CMS/Store/2018-19/23130

Date 21/01/2019...

Corrigendum in Bid

The bid submission starting and closing dates are hereby extended in NIT No. RUHS CMS/Store/2018-19/22100 Dated 07-01-2019 (Sr. No. 01 to 03 Online Bids, Sr. No. 04 Offline Bids) for Supply and installation of -

1. Real Time RT PCR System,
2. Silent Diesel Generator,
3. Establishment of Modular Swine Flu Lab and VRDL with Negative Pressure Laboratory,
4. Various Equipments/Items

(UBN -- CMS1819GLOB00213 to CMS1819GLOB00215 & CMS1819GSOB00216 to CMS1819GSOB00223)

for Swine Flu and VRDL Lab at RUHS College of Medical Sciences, Jaipur

S. No.	Description	Previous Date	Extended up to
1.	Bid submission Start Date/Time	21-01-2019 at 5.00 PM onwards	22-01-2019- at 5.00 PM onwards
2.	Bid submission End Date/ Time	01-02-2019 at 2.00 pm	02-02-2019 at 2.00 pm
3.	Technical Bid Opening Date/Time	01-02-2019 at 03.00 pm for Sr. No. 04 02-02-2019 at 11.00 am for Sr. No. 01 to 03	02-02-2019 at 03.00 pm for Sr. No. 04 04-02-2019 at 11.00 am for Sr. No. 01 to 03

For any further information and change in schedule please visit the website www.ruhscms.org, or <http://eproc.rajasthan.gov.in> or www.sppp.raj.nic.in


(Principal)

RUHS College of Medical Sciences, Jaipur

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Date 22/01/2019

तकनीकी निविदा में संशोधन

राज.स्वा.वि.वि. आयुर्विज्ञान महाविद्यालय में स्वाईन फ्लू एवं वीआरडीएल लैब की स्थापना हेतु आवश्यक उपकरण Gel Documentation System क्रय करने हेतु जारी निविदा सूचना संख्या 22100 दिनांक 07.01.2019 में दिनांक 15.01.2019 को आयोजित प्री-बिड बैठक में विभिन्न फर्मों से निविदा में वर्णित स्पेसीफिकेशन के सम्बन्ध में प्राप्त प्रतिवेदनों पर विभागीय तकनीकी समिति द्वारा की गयी अभिशंका का अनुमोदन महाविद्यालय क्रय समिति द्वारा किये जाने के पश्चात् उपकरण के स्पेसीफिकेशन में निम्नानुसार परिवर्तन किये जाते हैं -

1. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 3 - With UV and visible light transillumination, motorized zoom lens; Transillumination and epi- illumination. के स्थान पर **With UV and visible light transillumination / tray, motorized zoom lens; Transillumination and epi- illumination.** परिवर्तित किया जाता है।
2. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 10 - should be capable of handling sample upto 26*18 cm के स्थान पर **Should be capable of handling sample upto 15*11 cm or better.** परिवर्तित किया जाता है।
3. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 15 - CCD resolution- 5 megapixel or more के स्थान पर **CCD resolution- 4 megapixel or more** परिवर्तित किया जाता है।
4. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 16 - Filter holder to have 3 positions, to be provided with all filters [emission and other] के स्थान पर **Filter/tray holder to have 3 positions, to be provided with all filters [emission and other].** परिवर्तित किया जाता है।
5. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 17 - Dynamic range >3 pixels density [gray levels] of > 4000 magnitude को निरस्त किया जाता है।
6. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 18 - Should work on 230 V as per Indian voltage requirements and to be provided with suitable stabilizer, UPS with 2 hour backup. के स्थान पर **Should work on 230 V as per Indian voltage requirements and to be provided with suitable stabilizer, UPS with 2KVA with 30 minute backup** परिवर्तित किया जाता है।
7. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 19 - Provided with PC, Software compatibility: Windows के स्थान पर **Provided with PC and laser printer, Software compatibility: Windows** परिवर्तित किया जाता है।
8. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 20 - Should be supplied with 1.5 ton split air conditioner of good make. को निरस्त किया जाता है।

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उपरोक्तानुसार वर्णित बिन्दुओं के अतिरिक्त उपकरण के स्पेसीफिकेशन एवं 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।

(^{दीन} प्रधानाचार्य)

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राज.स्वा.वि.वि. आयुर्विज्ञान महाविद्यालय में स्वाईन फ्लू एवं वीआरडीएल लैब की स्थापना हेतु आवश्यक उपकरण Horizontal Gel Electrophoresis System क्रय करने हेतु जारी निविदा सूचना संख्या 22100 दिनांक 07.01.2019 में दिनांक 15.01.2019 को आयोजित प्री-बिड बैठक में विभिन्न फर्मों से निविदा में वर्णित स्पेसीफिकेशन के सम्बन्ध में प्राप्त प्रतिवेदनों पर विभागीय तकनीकी समिति द्वारा की गयी अभिशंषा का अनुमोदन महाविद्यालय क्रय समिति द्वारा किये जाने के पश्चात् उपकरण के स्पेसीफिकेशन में निम्नानुसार परिवर्तन किये जाते हैं -

1. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 1 - Submerged gel electrophoresis apparatus with clear plastic construction for easy sample visualization के स्थान पर **Submerged gel electrophoresis apparatus with clear plastic single molded construction for easy sample visualization** परिवर्तित किया जाता है।
2. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 2 - Tray should be UV transparent, length 12-15cm and width 12-15cm के स्थान पर **Should supply minimum 2 Trays and should be UV transparent, length 10-15cm and width 12-15cm.** परिवर्तित किया जाता है।
3. उपकरण के स्पेसीफिकेशन में निम्न बिन्दु अतिरिक्त रूप से जोड़े जाते हैं -

System should be supply with leak proof gel caster and in gel casting attachment.

Should be compatible for fast resolution of DNA (Bromophenol blue migration rate > 4.5 cm/ hr at 75 V)

Power supply with LCD display: Voltage 10-300 V or more with 1 V increment, adjustable from 10 to 400 milliampere (mA) or better in 1 mA increments. Minimum 3 output or better, Constant voltage or constant current output Time control should 1 min to 99 hour 59 min, fully adjustable with 1 minute step Safety features should be there for no load detection, overload/ short circuit protection, overvoltage detection, input line protection, auto power-up after power failure.

All specifications are available in manufacturer brochure/ catalogue, EN/ European CE certified

Should be provided with Desktop computer along with Laser printer of good make.

उपरोक्तानुसार वर्णित बिन्दुओं के अतिरिक्त उपकरण के स्पेसीफिकेशन एवं 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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राज.स्वा.वि.वि. आयुर्विज्ञान महाविद्यालय में स्वाईन फ्लू एवं वीआरडीएल लैब की स्थापना हेतु आवश्यक उपकरण Establishment of Modular Swine Flu Lab and VRDL with Negative Pressure Laboratory क्रय करने हेतु जारी ई-निविदा सूचना संख्या 22100 दिनांक 07.01.2019 में दिनांक 15.01.2019 को आयोजित प्री-बिड बैठक में विभिन्न फर्मों से निविदा में वर्णित स्पेसीफिकेशन के सम्बन्ध में प्राप्त प्रतिवेदनों पर विभागीय तकनीकी समिति द्वारा की गयी अभिशंषा का अनुमोदन महाविद्यालय क्रय समिति द्वारा किये जाने के पश्चात् उपकरण के स्पेसीफिकेशन में निम्नानुसार परिवर्तन किये जाते हैं -

1. निविदा प्रपत्र के पृष्ठ क्रमांक 05 पर अंकित बिन्दु संख्या 06 -

Supply and installation of following equipment's and systems shall be done by the executing agency and shall be included in the scope of work:

- Pass Box and Dunk Tanks - 1
- Air compressor - 2 (one for negative pressure and one for positive pressure lab)
- Air conditioners - specified in point no 27
- Door interlocks and Access Control System - for part A
- Fire Detection & Alarm System - 1
- Surveillance (CCTV) System - camera in each room (10 in no.), Corridor (1 in no.)
- LAN System & Intercom System - 1
- Laboratory Work Station, Eye wash and Hand Wash Stations - 1
- Laboratory furniture - as specified in 39 (g)
- Effluent Decontamination System - 1
- Ventilated type Garment storage cabinets for change room - 1

के स्थान पर

Supply and installation of following equipment's and systems shall be done by the executing agency and shall be included in the scope of work:

- Pass Box and Dunk Tanks - 1
- Air conditioners - specified in point no 27
- Door interlocks and Access Control System - for part A
- Fire Detection & Alarm System - 1
- Surveillance (CCTV) System - camera in each room (10 in no.), Corridor (1 in no.)
- LAN System & Intercom System - 1
- Laboratory Work Station, Eye wash and Hand Wash Stations - 1
- Laboratory furniture - as specified in 39 (g)
- Effluent Decontamination System - 1
- Ventilated type Garment storage cabinets for change room - 1 परिवर्तित किया जाता है।

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2. निविदा प्रपत्र के पृष्ठ क्रमांक 07 पर अंकित बिन्दु संख्या 20 –

The Biosafety Doors of fumigation airlock and BSL-2/3 Laboratory shall be Air-Tight Doors, provided with inflatable gaskets, connected to compressed air line from the air compressor, to ensure perfect sealing when in closed position. The inflatable gaskets shall be interlocked with the door interlock system such that when the door is closed, the gasket should inflate and seal the door and when the door release button is pressed, the gasket should deflate to allow opening of the door. The doors shall be provided with sealed vision glass and shall be complete with door closers and SS handles.

के स्थान पर

The Biosafety Doors of fumigation airlock and BSL-2/3 Laboratory shall be Air-Tight Doors. The doors shall be provided with sealed vision glass and shall be complete with door closers and SS handles. परिवर्तित किया जाता है।

3. निविदा प्रपत्र के पृष्ठ क्रमांक 12 पर अंकित बिन्दु संख्या 39 (f) –

f) EFFLUENT DECONTAMINATION SYSTEM

The Chemical Decontamination System for molecular Laboratory effluent shall comprise of one nos. Effluent Collection tanks of 2000 Ltrs. Capacity. The decontamination tanks shall be constructed in PVC (14 gauge) to be provided at ground floor and should be connected to nearby sewer line. The drain line from Laboratory containment area shall be terminated to the effluent decontamination tanks. The effluent decontamination tanks shall be provided with motorized OPEN/CLOSE valves connected with liquid level sensor such that when one tank get filled up to approx. 800 Ltrs volume, the supply valve shall automatically close and the supply valve of the standby tank shall automatically open to allow collection of effluent. During this time, the effluent collected in filled up tank can be decontaminated by introducing disinfectant chemical. This cycle shall be repeated automatically vice-versa with both the decontamination tanks and the process shall be automatically controlled through a control panel.

One number chemical storage tank in SS 304 (14 gauge) fitted with transfer pump and measuring device, piped and connected to both the decontamination tanks shall also be provided for introducing disinfectant chemical into the decontamination tanks.

The system shall be complete with following items:

One nos. Decontamination Tanks, of 2000 Ltrs. capacity

- Motorized valve connected with liquid level sensor through control panel

- Power and control cabling/wiring for motorized valves with control panel

के स्थान पर

f) EFFLUENT DECONTAMINATION SYSTEM

The Chemical Decontamination System for molecular Laboratory effluent shall comprise of one nos. Effluent Collection tanks of 500 Ltrs. Capacity. The decontamination tanks shall be constructed in PVC (14 gauge) to be provided at ground floor and should be connected to nearby sewer line. The drain line from Laboratory containment area shall be terminated to the effluent decontamination tanks. The effluent decontamination tanks shall be provided with motorized OPEN/CLOSE valves connected with liquid level sensor such that when one tank get filled up to approx. 400 Ltrs volume, the supply valve shall automatically close and the supply valve of the

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standby tank shall automatically open to allow collection of effluent. During this time, the effluent collected in filled up tank can be decontaminated by introducing disinfectant chemical. This cycle shall be repeated automatically vice-versa with both the decontamination tanks and the process shall be automatically controlled through a control panel.

One number chemical storage tank in SS 304 (14 gauge) fitted with transfer pump and measuring device, piped and connected to both the decontamination tanks shall also be provided for introducing disinfectant chemical into the decontamination tanks.

The system shall be complete with following items:

- One nos. Decontamination Tanks, of 500 Ltrs capacity
- Motorized valve connected with liquid level sensor through control panel
- Power and control cabling/wiring for motorized valves with control panel परिवर्तित किया जाता है।

4. निविदा प्रपत्र के पृष्ठ क्रमांक 13 पर अंकित बिन्दु संख्या 1 (a) -

1a. WALL PANELING SYSTEM - Providing fixing, supply & installation of Pre fabricated Lab wall. The prefabricated lab room should be cladding structure insulated stainless steel wall panels. Total panel thickness 100 mm for walls.

It should be 0.6mm PPGI/ PCGI sheet sandwich panel one side & 0.8mm EGP other side with core consisting of rigid polyurethane foam, which has been injected under high pressure, with a minimum density of 40 kg/m3.

The individual wall panels shall use the tongue and groove technology for joining two panels, welding should be allowed.

The gap between the panels shall be suitably filled with metal filter/epoxy and sanded flush.

Stainless steel plate finished to fine grain surface, rated properly to take antifungal paint.

Paneling should be easy to maintain and durable.

Clearance between inner panel and outer panel should be sufficient to allow the maintenance personnel for service. This closed space should be finished continuously to eliminate dust and bacterial accumulation.

Panel should be covered with protective sheath to prevent scratch during the installation.

It should have minimum number of junction. The junction should be seamless and should be sealed with suitable sealants.

Wall paneling should have proper fire protection.

Bidder should provide factory test certification for all the material used for wall paneling.

के स्थान पर

1a. WALL PANELING SYSTEM - Providing fixing, supply & installation of Pre fabricated Lab wall.

The prefabricated lab room should be cladding structure insulated stainless steel wall panels. Total panel thickness 80 mm for walls.

It should be 0.6mm PPGI/ PCGI sheet sandwich panel one side & 0.6mm EGP/ PPGI/ PCGI sheet other side with core consisting of rigid polyurethane foam, which has been injected under high pressure, with a minimum density of 40 kg/m3.

The individual wall panels shall use the tongue and groove technology for joining two panels, welding should be allowed.

The gap between the panels shall be suitably filled with metal filter/epoxy and sanded flush.

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Stainless steel plate finished to fine grain surface, rated properly to take antifungal paint.

Panelling should be easy to maintain and durable.

Clearance between inner panel and outer panel should be sufficient to allow the maintenance personnel for service. This closed space should be finished continuously to eliminate dust and bacterial accumulation.

Panel should be covered with protective sheath to prevent scratch during the installation.

It should have minimum number of junction. The junction should be seamless and should be sealed with suitable sealants.

Wall panelling should have proper fire protection.

Bidder should provide factory test certification for all the material used for wall panelling. परिवर्तित किया जाता है।


5. निविदा प्रपत्र के पृष्ठ क्रमांक 11 पर अंकित बिन्दु संख्या (g) -

g) LABORATORY FURNITURE: Layout of modular laboratory furniture including cabinets embedded in walls or separate both open racks and closable racks seven in no., revolving chair 10 in no. (Hatch back, cushion chairs), revolving stools 20 in no., indicative sign boards, LED posters for virology; shoe racks one in no. etc. Should be provided by the bidder as per given layout of laboratory, which will be approved by the employer before finalization.

के स्थान पर

g) LABORATORY FURNITURE: Layout of modular laboratory furniture including cabinets embedded in walls or separate both open racks and closable racks five in no., revolving stools 07 in no., indicative sign boards, LED posters for virology; shoe racks one in no. etc. Should be provided by the bidder as per given layout of laboratory, which will be approved by the employer before finalization.

उपरोक्तानुसार वर्णित बिन्दुओं के अतिरिक्त उपकरण के स्पेसीफिकेशन एवं 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।


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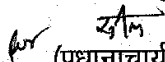
Date 22/01/2019

तकनीकी निविदा में संशोधन

राज.स्वा.वि.वि. आयुर्विज्ञान महाविद्यालय में स्वाइन फ्लू एवं वीआरडीएल लैब की स्थापना हेतु आवश्यक उपकरण Real Time RT PCR System क्रय करने हेतु जारी ई-निविदा सूचना संख्या 22100 दिनांक 07.01.2019 में दिनांक 15.01.2019 को आयोजित प्री-बिड बैठक में विभिन्न फर्मों से निविदा में वर्णित स्पेसीफिकेशन के सम्बन्ध में प्राप्त प्रतिवेदनों पर विभागीय तकनीकी समिति द्वारा की गयी अभिशंषा का अनुमोदन महाविद्यालय क्रय समिति द्वारा किये जाने के पश्चात् उपकरण के स्पेसीफिकेशन में निम्नानुसार परिवर्तन किये जाते हैं -

1. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 04 - 96-well block (both for Fast and standard Emulation Mode). के स्थान पर **96-well block (both for Fast and standard Mode)**. परिवर्तित किया जाता है।
2. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 17 - Run time: ~30 min (fast mode-expert), <2 hrs (standard & emulation mode) for 40 cycles). के स्थान पर **Run time: ~30 min (fast mode-expert), <2 hrs (standard mode) for 40 cycles)**. परिवर्तित किया जाता है।
3. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 21 - Licensed full version software for primer and probe design with comprehensive assay design and development guidelines for quantitative and qualitative real-time assays should be provided to enable designing of custom oligo assays. के स्थान पर **Full version software for primer and probe design with comprehensive assay design and development guidelines for quantitative and qualitative real-time assays should be provided to enable designing of custom oligo assays**. परिवर्तित किया जाता है।
4. उपकरण के स्पेसीफिकेशन में वर्णित बिन्दु संख्या 29 - Instrument should be supplied with a PCR tube spinner, Vortex mixer 4 in no., Magnetic stirrer of 1 litre capacity, Dry bath and automated extraction machine for pre sample preparation के स्थान पर **Instrument should be supplied with a PCR tube spinner, Vortex mixer 4 in no., Magnetic stirrer of 1 litre capacity and Dry bath for pre sample preparation** परिवर्तित किया जाता है।

उपरोक्तानुसार वर्णित बिन्दुओं के अतिरिक्त उपकरण के स्पेसीफिकेशन एवं 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।

for 
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Date 22/10/2019

तकनीकी निविदा में संशोधन

राज.स्वा.वि.वि. आयुर्विज्ञान महाविद्यालय में स्वाईन फ्लू एवं वीआरडीएल लैब की स्थापना हेतु आवश्यक उपकरण Distilled Water Filtration Plant for Nuclease free water on molecular grade + R.O. + Extra Filter + Water tank क्रय करने हेतु जारी निविदा सूचना संख्या 22100 दिनांक 07.01.2019 में दिनांक 15.01.2019 को आयोजित प्री-बिड बैठक में विभिन्न फर्मों से निविदा में वर्णित स्पेसिफिकेशन के सम्बन्ध में प्राप्त प्रतिवेदनों पर विभागीय तकनीकी समिति द्वारा की गयी अभिशांका का अनुमोदन महाविद्यालय क्रय समिति द्वारा किये जाने के पश्चात् उपकरण के स्पेसिफिकेशन में निम्नानुसार संशोधित किये जाते हैं -

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, silver, antiscaling agent for added advantage over contaminated water quality and also enabling replacement "on demand" to save recurring cost with minimum three-years of free running.

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/ Advanced EDI should have minimum 5 years of cost free working 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 must have volumetric dispense, which delivers the preset volume of water in the system.

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 port to connect the system remotely with PC for fast service, in accordance with international guideline. The system should be capable of

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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 MΩ.cm ("Typically" "May be" will not be accepted)

TOC: <50ppb

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

RNase: <0.003 ng/ μl (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

2/19

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Vendor must provide warranty with consumables for 3 years. The vendor must provide at least 3 years of satisfactory performance certificate from Govt. organizations to ensure after sales service.

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।

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