

e-TENDER AMENDMENT

Reference Tender Notice No: NEIGR/S&P/03/05/2018-2019; Dated: 17.05.2018 pertaining to Tender Enquiry No: NEIGR/S&P/OT/E-08/2018 -19 for processing of Laboratory Refrigerator, Table Top Centrifuge, Air Sampler, Autoclave, Incubator, Plasma Sterilizer for Infection Control -Targetted Surveillance, for implementation of project under Swachhta Action Plan in the Institute

Kindly note the following item along with the specification in sequential order:-

Section – VII

Technical Specifications:

Sl. No.	Name of the Equipment	Quantity
1.	Autoclave - As the specification of the Autoclave has indicated two inner chambers (i.e. 400 x 600 MM and 300 x 300 MM), Bidders are to offer the rate of 400 x 600 MM chamber in the BOQ (e-Price bid) and size 300 x 300 MM in the technical bid, as percentage of FOB /Ex-factory price of Sl. No. 1.01.	02 nos
2.	Table Top Centrifuge	02 nos
3.	Automated Microbiological Air Sampler	01 no
4.	Microbiological Incubator	01 no
5.	Plasma Sterilizer Note: Cost of Reagents /Consumables @ 500 cycles per year should be quoted in the techno-commercial bid, as percentage of FOB /Basic Price, which will be taken for the purpose of price evaluation and the rates should be valid for a period of ten years.	01 no
6.	Laboratory Refrigerator	02 nos

Please Note:

- As the specification of the Autoclave has indicated two inner chambers (i.e. 400 x 600 MM and 300 x 300 MM), Bidders are to offer the rate of 400 x 600 MM chamber in the BOQ (e-Price bid) and size 300 x 300 MM in the technical bid, as percentage of FOB /Ex-factory price of Sl. No. 1.01.

Detailed Specification: (See below)

AUTOCLAVE

1. Microprocessor based electrically heated vertical steam sterilizer,
2. Pressure range 15-20 psi adjustable, pressure control switch with digital display,
3. Outer and inner chamber made of Stainless Steel,
4. Inner chamber made of at least 18 SWG SS sheet,
5. Inner chamber size 400 X 600MM (big) and 300x300MM (small),
6. Stainless Steel steam jacket insulated with high grade glass wool, water level indicator with automatic low water level cutoff device, joint less gasket, water inlet and drain valves, with standard safety features.

Environmental factors :

1. Shall meet IEC-60601 - 2: 2001 (Or Equivalent BIS). General Requirements of Safety for Electromagnetic Compatibility.
2. The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%.
3. The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of 80%.

Power Supply :

1. Power input to be 220-240VAC, 50Hz. supplied with standard accessories including one pair of gasket and heating coil.
2. Suitable voltage stabilizer of 2KV.
3. Suitable Auto voltage corrector with spike protector should be available.
4. Resettable overcurrent breaker shall be fitted for protection.

Standards and Safety :

1. Should be FDA or CE or ISI approved product.
2. Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450.
3. Should be compliant to ISO 13485 : Quality systems - Medical devices - Particular requirements for the application of ISO 9001 applicable to manufacturers and service providers that perform their own design activities.
4. Calibration according to NIST/DKD/PTB/UKAS/NPL/UL/CUL listed.
5. Five (5) years warranty from the date of installation and thereafter Five (5) years CMC.

Documentation :

1. User/Technical/Maintenance manuals to be supplied.
2. List of Equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
3. Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and accompany service engineer should be clearly spelt out.



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Table Top Centrifuge

Microprocessor controlled, swing out rotor
Maximum speed: 10,000 rpm

The Centrifuge must be capable of generating RCF in excess to 2000xg
Should be able to accommodate to spin 8 tubes 13 x 75 mm or 13 x 100 mm at a time. There should be provision of accessories of angle head/rotor for 2ml and 0.5 ml tube.

The system should have brush less induction drive,
Dynamic braking for rapid stop with out cell disturbance. System should have safety features like lid lock and lid interlock. System should have touch keypads for date entry and large LED display for good visibility with provision of timer (0-60minutes). Noise level should be less than 60 db. Electrical 220 volts 50 Hz.

CE, ISO 9001, ISO13485 Marked or equivalent marked.

There should be technical support and after sale engineering service provision from the Responder. It is necessary to furnish the Users' list in Government set-ups, especially in the North- East region of India. Certificate of proven satisfactory performance is to be accompanied along with terms & conditions and service agreement of the Responders.

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Automated Microbiological Air Sampler

Easy to Use

1. It should be intuitive use with light weight and easy-to-transport
2. Remote control function should be available
3. It should use standard Petri dishes.

Accurate & Reproducible

1. Electronic speed and flow rate control
2. Battery load indicator with safety check.

Robust

1. Stainless steel sampling grid should be steam sterilizable.
2. Grid should be resistant to disinfectants.
3. Sampling volume should be adjustable.
4. Delayed start should be adjustable from 1 s to 60 min
5. Remote control of several sample air units simultaneously should be possible.
6. Alphanumerical display of messages and parameters should be available.

Validated Performance

1. The system performance should be according to ISO 14698-2.
2. Collection efficiency of microorganisms should be over 99%
3. Collection of microorganisms with particle size as low as 0.8 μm should be possible.
4. The system should include traceability functions and PC/Printer connection.

Environmental factors :

1. Shall meet IEC-60601 - 2: 2001 (Or Equivalent BIS). General Requirements of Safety for Electromagnetic Compatibility.
2. The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%.
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Microbiological Incubator

Microprocessor controlled temperature. The system should have a temperature control range from Ambient $\pm 5^{\circ}\text{C}$ to 70°C . The heat transfer to environment at 37°C should be 40 Wh/h. The equipment should have inner chamber volume of 60-800 ltrs. The system should have a temperature deviation of $\pm 0.2^{\circ}\text{C}$ at 37°C . The system should have heating up time of less than 45min. to achieve 37°C . The equipment should have a temperature recovery time of 10min. at 37°C . The equipment should have rounded edges and corners for easy cleaning. Equipment should have interface for the documentation of temperature during incubation.

CE, ISO 9001, ISO 13485 Marked or equivalent marked.

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2. Suitable voltage stabilizer of 2KV.
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Plasma Sterilizer

1.	The unit should be fully microprocessor controlled plasma sterilizer		
2.	The unit should be kept on the floor free standing with mobile wheels and front loading type.		
3.	The standard /Eccycle time should be less than 23 minutes and advanced cycle should be less than 40 minutes. The cycle programmes should be automatically performed.		
4.	The unit should sterilize surgical instruments using state of art oxygen peroxide gas plasma technology.		
5.	The temperature of sterilization should be in the range of 55 degree Celsius and of low moisture.		
6.	Should display touch screen panel during cycle.		
7.	The unit should have at least 17 litres of a usable volume and the chamber should be rectangular in shape		
8.	Should be able to sterilize flexible as well as rigid endoscopes.		
9.	Should be able to sterilize single through lumen PCD & hollow type Trocar/cannula 2mm dia x 1500mm.		
10.	The sterilizing agent (Hydrogen peroxide) should be in closed cassette/cartridge for perfect dispensing, accuracy and better sterility assurance.		
11.	The unit should have no toxic residuals with primary by products being water vapour and oxygen and it should be safe for patient, staff and environment.		
12.	The unit should completely and automatically monitor its operations and supplied with audiovisual alarms and built-in thermal printer		
13.	The operation of the sterilizer should have no requirement of additional water supply source.		
14.	The maintenance mode should be accessible from front screen for easy maintaining activity.		
15.	Sterilization chamber is made of stainless steel(AISI 316/304 grade)which resist to react with hydrogen peroxide plasma gas.		
16.	Should store the sterilization data by sd memory card		
17.	Electricity Connection should be supplied for 220-240V,AC 50/60Hz, single phase the power consumption should be less than 1.5KW		
18.	The plasma sterilizer should conform to the following Norms and directives: -ISO 9001:2008-Quality systems -ISO 13485:2003-Quality systems for medical devices -ISO 14937:2000-all requirements for sterilization of medical products -derivative 93/42/EEC		
19.	The plasma sterilizer should be of high quality with European/US FDA approved.		
20.	The unit should be supplied with UPS, automatic sealing machine & sterilization trays.		
21.	The sterilizer should also supplied with sterilization cartridges, chemical indicators, Bi incubator, trays, pouches for packing, printer, paper roll etc to run at least 100 cycles.		

NOTE: All the requirements should be supplied to the committee/you to verify/submit.



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Approved
 14/03/16

LAB REFRIGERATORS

- > Capacity (as per user requirement) 340-400 Liters.
- > Temperature 2-8°C
- > Preferably roller mounted
- > Adjustable shelves
- > Battery backup
- > Durable rust free exterior
- > Durable unbreakable interior
- > Control panel with temperature alarm, on/off switch and digital thermometer.
- > Interior lighting, Drip tray and defrosting arrangement.
- > Adequate circulation of air to ensure even cooling by DUCT system
- > Door with lock. Inside of door provided with racks. Door hinges and latches should be chromium plated.
- > Control panel with temperature alarm, ON /OFF switch with power on indicator, digital thermometer, temperature display.
- > Electronic automatic temperature control.
- > Operable at 220 V, 50 Hz, single phase AC supply.
- > Compressor unit to be hermetically sealed with guarantee for at least five years.
- > Training of laboratory staff for the purchased equipment
- > Three years warranty, 5 yrs comprehensive AMC should be available with service centers in close proximity
- > Availability of spares/ disposables for at least 10 years.
- > All consumables required for installation and standardization of system to be given free of cost.
- > List of users and satisfactory report of quoted model from reputed institute preferably Government institute/ hospitals
- > Should have all the accessories required for the functioning of the equipment.
- > CE / ISI mark or other equivalent quality certification.
- > All electrical peripherals required for smooth functioning e.g. voltage stabilizer provided with the equipment
- > There should be provision for demonstration before final approval of equipment.



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For and on behalf of Director, NEIGRIHMS

