



NATIONAL INSTITUTE OF UNANI MEDICINE

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(An autonomous body under Govt. of India, Ministry of AYUSH)

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Date. 15/10/2018.

(Procurement of Hospital Equipment)

To,

Subject: Invitation of quotation for supply of ETO Machine and Ultrasonic Washing Machine for Hospital, NIUM: – reg.

Sir,

With reference to the subject mentioned above, Quotations are invited from reputed registered dealers for the supply of instruments as detailed below.

Sl. No	Name of the Items	Specification /Make	Quantity Required.	Amount ([₹])	Total GST Amount ([₹])	Grant Total ([₹])
01	ETO Machine	ETHYLENE OXIDE GAS STERILISER (Table Top Model) 2.0cf Technical Specification Automation Specification: 01.Display: 4" Color touch screen 02.PLC: 8DI & 8DO(CE Approved) 03.Analog input: 3(1 Temperature + 1Pressure + 1Humidity) 04.Resolution: Temperature (0.1), Pressure (0.001Bar), Humidity (1%) 05.Valve: Vacuum , ETO inlet, Air vent, Humidity 06.Auto water level controller for Humidity(Optional) 07.Print: Thermal Printer (2" paper width) 08.Print time adjustable 09.Real time clock 10.RS-232 Modbus output for SCADA interfacing 11.Password: Parameter Setting , Cycle Start 12.Optional: Report generation, Graph generation, Summery report 13.Feather touch key for manual operation (: Vacuum , ETO inlet, Air vent, Humidity) 14.Digital Pressure gauge 15.Temperature controller with PID control	01 Set			

16. In built air compressor
 17. ISO 13485:2016
 18. CE
 19. AS 1210 - 2010 class 3
 Stages:

- Precondition temperature
- ✓ Vacuum
- ✓ Leakage checking
- ✓ Humidity generation
- ✓ ETO inlet
- ✓ ETO Exposure
- ✓ 3 times or more (Air wash vacuum & Air Break) for remove ETO gas from Chamber
- ✓ Cycle finish
- ✓ Aeration

Equipment's specifications: - E.O gas sterilizer Model "EO Series SEL 50"
 Inner Shell (Chamber) : SS 304 (5mm Thickness)
 Chamber internal DIM in FT : 1' W X 1' H X 2' D (ft)
 Chamber internal DIM in Inch : 12" X 12" X 24" (inch)
 Chamber Operating Pressure : Negative pressure cycle @ -0.9kg/cm² to -0.25kg/cm²
 Chamber Testing pressure : -0.95Kg/cm²
 Single Door : SS 304L / 2mm Thickness with 10mm Square bar
 Door Locking System : Easy locking system.
 Gasket (food grade) : Silicon Gasket (15 mm solid section)
 Outer cover : Front SS 304 , MS Powder Coated - Body`
 Heating : Heaters on all sides of the Chamber for uniform heating throughout the load.
 Insulation : The chamber will be covered by insulated cloth.
 ETO Cartridge System : It will be punched automatically through pneumatic cylinder
 ETO Gas Cartridge : EO Aluminum Cartridge - 40 ML, Cartridge will be punched inside the ETO Chamber
 Temperature Sensor : For accurate measuring and controlling of Temp. in the chamber
 Operating Temperature : Maximum: 37-55°C (chamber)
 RH% Sensor (Honeywell USA) : For measuring and controlling the humidity of the chamber
 Pressure Transmitter - Make: MEAS, USA : For measuring and controlling the pressure-vacuum that the load is subjected to during removal and charging of Gas.
 All fittings on the chamber : SS 304
 All Valves for Automation (Make : SMC Pneumatic - Japan) : Solenoid items.
 Humidification : special humidifier for the purpose of humidification of the load and Heating of the gas.
 Vacuum Pump - Japan Make : Special less

		<p>Noise and non ferrous Vacuum pump provided for vacuum and Aeration of the load. Automation Hardware : PLC (CE approved, CLASS 1 DIV2 Groups ABCD Surrounding TempL50°C)HMI 4.3" color touch screen Process Reports : Reports are generated by the software for each and every cycle in three formats, viz. (i) Graph Report (ii) Single page Summary report and (iii) Detailed Report RCCB for current leakage safety Chamber weight: 180 Approx Tray: SS 304 tray – 1nos. Steam generator for humidity inside the chamber - RH Injection 3 Mt.r Steel Braided Pipe</p>				
02	Ultrasonic Washing Machine	<p>ULTRASONICS CLEANING STAGE Technical details Tank size : 24" L X 10" W X 9" H Liter Capacity : 35 liter Tank material : S.S. 304 / 2 mm thick Tank Housing Material : S.S. 304/1.2 mm thick Tank trolley material : S.S. 304 / 1.2mm thick Ultrasonic power : 500 watts Ultrasonic block : 10 nos. Heater : 1.5 KW x 1 No with Digital Temp.Cont. Temp : 60 - 65° C , with digital temp Transducer : PZT Sandwich Type Bonded on side Of tank. Frequency : 22+ /- 3kHz Ultrasonic generator : The ultrasonic generator is of Solid state designed having Pulsed optimum power output at maximum load . the ultrasonic power output is 500 watts at a frequency of 22+/- 3 KHz. Description - Makes Ultrasonic's : High clean Crystal's : Ceram Tec GMBH – Germany Cables & Glands : Polycab / Finolex Contactors & Overload Relays : Siemens Temperature Indicator Cum Controller : Masibas / Selectron Timer : Masibas / Selectron Push Button/ switches & Lamps : Siemens/ Select MCCB : Siemens Insulation : Super ion / Morgan Terminal Connector : Elmex Copper lug : Dowell / 3D Heater : Rishina Electrical</p> <p>SAFETY AND INTERLOCKS MCB. Thermal insulation around the tank. Fuse base with Link for Heater. Fuses base with Link for Ultrasonic.</p> <p>PIPING & CABLING Tank Drain ¾ " BSP SS ball valve All piping, valves, bends; flanges shall be suitably sealed and shall be stainless steel.</p>	01 Set.			

		All cabling shall be supported on tray / duets. Control & power cabling power shall be separated routed. Utilities required (To be ensured by your company) Electrical Power: 230 Volt (+10 %).1 phase, 50 Hz (+ 2%)				
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The quotations may be submitted in a sealed cover quoting the competitive rate with above specification by clearly mentioning taxes applicable if any., time required for supplying the items with the terms & conditions, Copy of GST

Wherever required Test Certificate should be sent along with relevant document.

Incomplete bids are liable for rejection. Late / delayed offer will not be considered.

NIUM reserves the right to reject any or all tender without assigning any reason.

The envelope containing quotation should be super scribed as **“Quotation for supply of ETO Machine & Ultrasonic Washing Machine for Hospital, NIUM”**

The last date for the submission of quotation is: **31/ 10/2018.**

Yours faithfully,

Sd/-

(Suresha)
Accounts Officer

Distribution :

- 1.Dr.S.Shah Alam, DMS, for information.
- 2.Website in-charge for information and to upload quotation in NIUM- website.
- 3.Concern file.
- 4.Guard file.