



GURU GOBIND SINGH MEDICAL COLLEGE, FARIDKOT. (PUNJAB)- 151203.
(Constituent Medical College of Baba Farid University of Health Sciences, Faridkot)

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No. Purchase/GGS/2016/...43264

Dated...10.11.2016

Sub: Tender for supply and Installation of Equipments required at this Institution.

Sealed Tenders are invited for supply of Instruments required at this Institution on terms & Conditions given as under:-

Sr.No	Name of Item with Specifications
1.	<u>Water Distiller/Water Distillation Apparatus</u> <ol style="list-style-type: none">1. Wall Mounted Distiller2. Double-Walled Housing, with the outer housing made of sheet steel, protected against rust. (e.g Galvanised steel, powder coated with epoxy resin)3. All parts in contact with steam or distilled water to be made of high quality stainless steel.4. Built in storage tank to hold around 8 litres of distilled water.5. Cooling coil (easily accessible and exchangeable).6. Water supply connected through a built in solenoid valve with sufficiently wide cross section.(e.g ½ inch House)7. Water level regulator that switches off (i.e stops heating and cooling the water supply) when the storage tank is full.8. Mechanism to automatically restart the distiller when distilled water is withdrawn.9. Electronic device to switch off the evaporator when impurities are detected (along with an indicator, such as an alarm or light, to show shut-down)10. The evaporator to have an easily accessible drainage stopcock with hose.11. Heating elements to be made of stainless steel.12. Integral filter and flow-control system.13. Cut off in case of water supply shortage.14. Distilled water to comply with the International Pharmacopeia, be free from pyrogen and have a conductivity of $\leq 2.3 \mu\text{S}/\text{cm}$ at 20°C.15. Net Weight: Approx:20 Kg. <u>Accessories</u> <ol style="list-style-type: none">1. Electrical Conductivity Meter. If an electrical conductivity meter is not integrated in to the distiller apparatus, an independent meter to be supplied, to be mounted at the withdraw point of distillate.2. Hose and Clamps required to install the distiller.

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3. Additional storage tank (if larger amounts of water are required each day.)

Spare parts

Each assembled distiller to be accompanied by an authorized list of accessories and spare parts.

Flexible tube and clamps(to withstand pressures up to 10 bars.

Warranty: At least three years

AMC/CMC: for five years after warranty.

2. **INCUBATOR**

1. Chamber made of Stainless Steel, easy to clean.
2. Housing: Corrosion resistant, made of either Stainless steel or Zinc.
3. Galvanized sheet metal coated with epoxy, hardened by the heat treatment.
4. Double Doors, double Lock.
5. Inner Doors: Security Glass.
6. Volume of Interior Housing ≥ 600 Litres, corresponding to a capacity of about 2000-2200 TB Culture Tubes.
7. Designed specially for temperatures up to 70°C , optimized for living cultures at 37°C .
8. Temperature variation at 37°C : $\leq 0.1^{\circ}\text{C}$.
9. Temperature overshoot within this Limit.
10. Temperature range: 30°C (at least 5°C above ambient temperature) to 70°C .
11. Adjustable over Temperature protection controller-TWW protection class 3.1, or electronic temperature limiter-TWB protection class 2.
12. Uniformity of temperature inside the chamber (deviation $\leq 0.2^{\circ}\text{C}$)
13. Two High grade temperature sensors (class A) with mutual monitoring and taking over performance at same working temperature.
14. Integrated programmable timer.
15. Programs stored on power failure.
16. Adjustable air flap for preheated fresh air intake.
17. Vent connection with restrictor flap.
18. Display of temperature.
19. Alarm: Audible with display on dysfunction.
20. Function signals for operating mode.

Accessories

One or two additional perforated stainless steel shelves non tipping to match four shelves per incubator.

Spare parts

Each incubator to be accompanied by an authorized list of accessories and spare parts.

A set of fuses.

Warranty:

Two years for regulator, Five years for heating Coils.

AMC/CMC: For Five Years after warranty.

3.

CENTIFUGE

1. Metal housing, chamber stainless Steel.
2. Induction Motor, brushless drive.
3. Rotor with swing-out buckets, at least four positions.
4. Rotor buckets with aerosol-tight, transparent, clipping lids.
5. Rotor bucket with aerosol-tight, transparent, clipping lids.
6. Inserts for buckets adapted to 50ml centrifuge tubes, conical.
7. Insert for bucket adapted to 15ml centrifuge tubes, conical. Capacity: about 20 x 50ml
8. Maximum revolutions per minute: approx. 4500rpm corresponding to a radius of approx. 15 cm
9. Relative centrifugal force (rcf) approx. 3400G
10. Noise level at maximum speed: not more than 60dbA.
11. Programmable for all parameters (switchable between rpm and rcf) of a run, large display.
12. Soft start and different acceleration levels (1-9) different braking levels (1-9) and brake force cut off.
13. Input and recall of programs: at least 20 storage positions.
14. LCD displays (protected against splash of liquids) for indications of run time, speed (rpm) or rcf (after entering centrifugation radius) switchable, actual temperature, time left to finish run.
15. Imbalance Switch Off.
16. Motor Overheating protection.
17. Chamber Overheating protection.
18. Rotor recognition for appropriate over speed protection.
19. Safety Lock of Lid during run and as long as the rotor is moving.
20. Possibility of mechanical opening of lid if there is current blackout.

Spare parts

Each Centrifuge to be accompanied by an authorized list of accessories and spare parts.

Device for mechanical opening of the centrifuge after automatic blocking as consequence of currency black out.

Lubricants for movable parts and gaskets.

Spare Fuses

Warranty: Three Years.

4.	<p><u>VERTICAL AUTOCLAVE</u></p> <ol style="list-style-type: none"> 1. Vertical Autoclave, universal basic version for microbiological standard. 2. Laboratory to sterilize liquids, instruments, glassware, plastic articles or general infectious waste. 3. Single wall construction chamber, door, doorframe, bolts made of corrosion resistant material and able to prevent stress cracking. Pressure vessel compliant with international standards. 4. Capacity : 90-100 Litres, stainless Steel Grade SS304. 5. Vertical with Lid opening at the top of the Autoclave with Radical locking System. 6. Heavy Duty high pressure System to be able to work at high pressure upto 30 psi. 7. Body, Lid: Stainless Steel grade SS304. 8. Digital Pressure gauge with electronic transducer. 9. Efficient steam condenser to eliminate steam exhaust into lab. 10. Pressure Control Switch 11. LCD Display 12. Alarm system at completion of Auto Claving 13. Safety Valve: Auto Eject Exhaust Valve. 14. Heater Load: 4 Kw 15. Voltage Stabilizer. 16. Warranty Period: 2 Years 17. AMC: 5 Years after warranty. 18. Three Stainless Steel buckets with Lid, diameter and height adjusted so that two fit in to the autoclave at the same time (usually 380mm X 290mm). 19. Chemical Indicator tape for sterilization. 20. Biological Indicator. 21. Tool to open the autoclave in case of electricity breakdown. 22. Essential Accessory: Silicon Gasket (Six (06) no's) <p><u>Spare parts</u></p> <p>Each Autoclave to be accompanied by an authorized list of accessories and spare parts.</p> <p>Set of Autoclave internal fuses. (if any)</p> <p>Sealing ring for Lid.</p>
5.	<p><u>HOT AIR OVEN</u></p> <ol style="list-style-type: none"> 1. Chamber made of stainless Steel, easy to clean. 2. Housing: preferably stainless steel or at least with a durable, corrosion resistant coating of metal.(e.g Galvanized sheet metal coated with epoxy, hardened by heat treatment)

3. Volume of interior housing: ≥ 250 litres for regional/reference laboratories 125 litres for other laboratories.
4. Two doors, double lock.
5. Temperature range: from 10°C above ambient to $+250^{\circ}\text{C}$.
6. Forced Air Ventilation by air Fan,
7. Air Fan: ≤ 58 dB at full speed, speed adjustable.
8. Adjustable Air Flap for preheated fresh air intake.
9. Vent Connection with restrictor Flap.
10. Alarm: Audible, with display on dysfunction.
11. Switch-off function at approx. 10°C above the temperature set.
12. Digitally adjustable electronic temperature controller, TWW protection.
13. Mechanical temperature limiter at fixed value 10°C above maximal Hot Air oven temperature (250°C).
14. Integrated programmable timer.
15. Programs stored on power failure.
16. Display of Temperature.
17. Function signals for operating mode.

Accessories

One additional set of perforated stainless steel shelves, if less than two are provided with the hot air oven.

Spare parts

Each hot air oven to be accompanied by an authorized list of accessories and spare parts.

A set of fuses, if used inside the instrument for regulation.

Warranty: Three Years for regulation: Five Years for Heating Coils.

INSPISSATOR

1. Housing and Chamber made of polished stainless steel.
2. Temperature Range: $25-85^{\circ}\text{C}$
3. Maximal temperature: 95°C
4. Working temperature: 85°C
5. Temperature Deviation: $\pm 0.75^{\circ}\text{C}$
6. Automatic Temperature Control and Regulation.
7. Overheating protection and automatic shut-off.
8. Water Level Sensor. (Instruments with Hot Air, Ventilated or Not, through the Chamber are not recommended.)
9. Automatic Shut-off on Lowered Water level.

10. Electronic Timer. 0-6 Hours.

11. Capacity: >350 tubes (16-18mm in diameter, 125-160mm in length) or universal bottles.

12. Racks for tubes in slant position, angle adjustment, covering full capacity of the Instrument.

13. Alarm: Audible, with Display on dysfunction.

Accessories

Optional: Inserts for Universal Tubes

Spare parts

Each inspisor to be accompanied by an authorized list of accessories and spare parts.

One Additional set of racks covering full capacity of the instrument for a second batch.

Warranty: Five Years for the heating coil and at least one year on Electricals.

6.

SINGLE CHANNEL VARIABLE VOLUME MICROPIPETTES

1. Single Channel Variable volume Micropipettes.
2. Should be of either of : Eppendorf, Thermoscientific, Gillson, Nichiryo
3. Volume Range as follows:-
 - 0.5-10 Microlitre
 - 2-20 Microlitre
 - 10-100 Microlitre
 - 100-1000 Microlitre
4. It should be fully Autoclavable
5. Volume Display in four Disgits with magnifier.
6. Lower part should be removable for cleaning or separate Autoclaving.
7. 2 Years warranty

Membrane Filter

1. Filtration Base Size 25mm, capacity 125 Litres
2. Flask of Filter Holder, capacity 125ml
3. Funnel Capacity 15ml
4. Filter Support base 25mm
5. Aluminum Clamp 25mm
6. Made of borosilicate Glass.


Terms & Conditions:

1. The bidders should have to follow all the Terms & Conditions.
2. The Instruments should be of Good Quality
3. The material/equipment should meet standards in quality i.e US FDA/CE/TUV.
4. Certificates regarding standard in quality should be submitted along with the bid.
5. Supply should be **F.O.R** Destination with Installation.
6. Rates quoted should not be more than those quoted to **DGS&D** and any other Central or State Govts. Organizations
7. Taxes should be clearly mentioned.
8. The quantity may increase or decrease according to the requirement.
9. Certificates regarding Non-blacklisting of the firm should be provided.
10. The bidding documents duly complete in all respects should be submitted in **two** separate sealed super subscribing on the top of the envelope Envelope "A" containing Technical Bid and Envelope "B" Price Bid with EMD. Both the envelopes (A&B) duly sealed should be put in one big cover which should again be sealed and addressed to the Principal, Guru Gobind Singh Medical College & Hospital, Faridkot. This envelope should be superscribed as "BID FOR SUPPLY OF....."
11. Catalogue/Broachers for complete specifications of the quoted item should be submitted along with the Bid.
12. Guarantee/Warranty should be quoted.
13. AMC/CMC should be quoted which will be applicable after completion of warranty/Guarantee period.
14. If the supply is not made within the stipulated period then late delivery charges @2% will be imposed on the total amount of Supply Order up to delay of **30 days** and thereafter @ 4% for another **30 days** after which Supply Order will be deemed cancelled & security/earnest money forfeited.
15. **Payment Terms:-** 80% payment will be released after satisfactory Installation of the Equipment and the balance 20% payment will be made after 60 days from the date of Installation after satisfactory working of the equipment.
16. **Tender fee:** Rs.1000/- for each item/tender should be submitted in favor of Principal, GGS Medical College, Faridkot in the shape of Demand Draft only. (Non Refundable)
17. **EMD:** Rs.40,000/- for each Tender should be submitted in the shape of Demand Draft in favor of Principal, GGS medical College, Faridkot. (Refundable).
18. Principal, GGS Medical College, Faridkot reserves all rights to reject any Tender/material without assigning any reason.

Note: Only Terms & Conditions mentioned on this Tender will be considered for supply order.

You are requested to send your lowest bid in sealed envelope, addressed to **The PRINCIPAL, G.G.S Medical College, FARIDKOT** super scribing **Tender for "Micro Equipments"** on the top of Envelope.

Last Date for receipt of Tender in Principal Office is **30.11.2016** by **5.00 Pm** through **Registered/Speed Post/Track able Courier** Only.


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