

Professor & Head
 Department of Anatomy
 K.G. Medical University, U.P.
 Lucknow

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115 V Units: controller: 2.2A, shorted
 Output condition
 1.1A, shorted output condition
 15V DC Typ. 0.8V DC Max.
 100uA Max. leakage 1.5mA Max.
 13 kg.cm (180 oz-in)
 26 kg.cm (360 oz-in)
 ±1% Load: ±2% Speed Drift: ±10%
 IP23 per IEC529 Humidity (non-condensing): 10% to 90%
 Altitude: Less than 2000 m
 Display: Green LED
 Dimensions (L x W x H): 292 mm x 203 mm x 184 mm
 (11-1/2 in x 8 in x 7-1/4 in)
 5 kg (11 pounds)
 Remote Control
 4-20 mA Input:
 250 ohms typical input impedance referenced to signal ground.
 4 mA, (Stop); 20 mA, (Full Speed)
 Accuracy: 3% F.S., Linear Resolution
 Overload Capability: 10V or 40 mA max.
 10 K ohms typical input impedance referenced to signal ground.
 2 V, (Stop); 10 V, (Full Speed)
 Accuracy: 3% F.S., Linear Resolution
 Overload Capability: 15V max.
 115V: UL508C, CSA C22.2, No.14
 230V (For CE Mark): EN61010-1
 (EU Low Voltage Directive) and EN61326
 (EU EMC Directive)
 Pollution Degree 2
 (indoor usage - lab, office)
 Compliance: 115V 230V
 Pollution Degree: 2-10 V Input:
 115 V Units: 230 V Units:
 Start/Stop-Local Control: 230 V Units:
 Input Voltage: 230 V Units:
 Function Disable: 230 V Units:
 Function Enable: 230 V Units:
 Input Current: 230 V Units:
 Function Disable: 230 V Units:
 Function Enable: 230 V Units:
 Maximum Torque: 230 V Units:
 300, 600 rpm Units: 230 V Units:
 100 rpm Units: 230 V Units:
 Speed Regulation: 230 V Units:
 Line: 230 V Units:
 Load: 230 V Units:
 Speed Drift: 230 V Units:
 Enclosure rating: 230 V Units:
 Humidity (non-condensing): 230 V Units:
 Altitude: 230 V Units:
 Display: 230 V Units:
 Dimensions (L x W x H): 230 V Units:
 Weight: 230 V Units:
 Remote Control: 230 V Units:
 4-20 mA Input: 230 V Units:
 2-10 V Input: 230 V Units:
 Compliance: 230 V Units:
 Pollution Degree: 230 V Units:

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34. Technical Specifications For Skeletons Articulated
 Mounted Skeleton, one with the various parts connected in such a way as to demonstrate normal relationship and allow motion between components as in the living body.
 Technical Specifications:
 The articulated adult skeleton should be ideal for teaching the basics of human anatomy
 The model should be replica of a life size human skeleton and should show all skeleton part in high details.
 The arms, legs and skull cap should be removable for study.
 Should be made of washable and unbreakable material
 All of the joints, sutures, fissure, foramina and processes should be portrayed with at most accuracy
 Height - 170 cm (approx.)
 Weight - 10kg. (approx.)
 Should be supplied with 5 castor roller stand.
 Should have ISO 13485 certification

35. Technical Specifications For Skeleton Disarticulated Bones

Should be of best quality.
 Should be a medical grade product.
 Should have ISO 13485 certification

36. Technical Specifications For Racks Steel

Should be of best quality.
 Should be a medical grade product.
 Should have ISO 13485 certification

- 37. Specimen jars**
 Size mm.
- 250 x 250 x 120 mm
 - 200 x 150 x 100 mm
 - 250 x 165 x 140 mm
 - 200 x 125 x 125 mm
 - 360 x 150 x 100 mm
 - 280 x 210 x 104 mm
 - 300 x 170 x 90 mm
 - 150 x 150 x 60 mm
 - 150 x 120 x 90 mm
 - 150 x 90 x 60 mm

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Department of Biochemistry

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Essential Criteria:

1. Demonstration mandatory at hospital premises at OEM cost.
2. CMC offered for the quoted equipment should not be more than 5% of the quoted model with not more than 5% escalation per year after completion of CMC period.
3. CMC offered for the quoted equipment must be on OEM letterhead for further years. (CMC offered on distributors/ Vendor letterhead will not be considered).
4. Installation process should be performed by OEM trained service engineer/ service representative on OEM's letter head/ service report, with a mandatory provision of providing preventive service visits of OEM trained service engineer/ service representative quarterly per year till completion of warranty period (i.e. 20 visits for first five years) and further quarterly visit (04 visits/ year) till the completion of CMC period.
5. The installation process must be completed by the OEM/ Service provider within 30 days of supply.
6. The accessories/ consumables utilized during the period of installation process should be taken care FOC by OEM/ Service provider.
7. The equipment complies with the requirement of the Medical Device Directive of class I equipment and Electromagnetic compatibility, all supporting documents must be provided.
8. **Equipment should have brand name / model number embossed/ etched on the equipment.**
9. In case of technical snag/ failure/ breakdown, the response time for inspection should be within 24 Hour and repair within 5 days, otherwise provide a service machine until the period of recovery of breakdown of the unit. Failing which will attract penal action as per the decision of the University (Uptime guarantee of 95%).
10. The page of technical bid should be numbered and checklist should be duly filled as per the annexures and all annexures should be in accordance with the format, otherwise it may be the reason for disqualification.
11. All the technical specifications accepted in the compliance statement must be supported by Original Literature from the firm/ O.E.M with Highlighting, Numbering & Flagging as per below mentioned format for the compliance statement.

S. No.	Technical Specification	Compliance Yes / No	Page No. in the proposal submitted where documentary evidence is enclosed as per tender Specs with highlighting, Numbering & Flagging
1			
2			

Vortex Mixer

Continuous or touch modes

• Microprocessor controls

• LED display for speed and time

Speed range: 120V: 500 to 3000 rpm

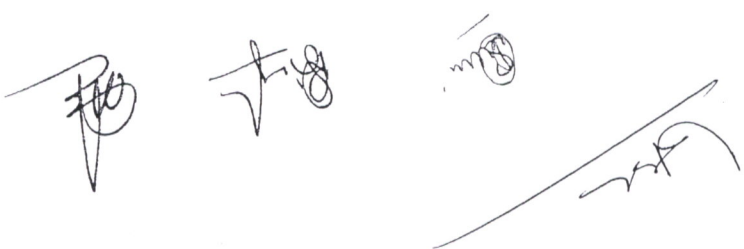
Orbit: 4.9mm Controls: 3-way power switch, LED display for time/speed, up/down keys for set-point control

Overall dimensions (L x W x H): 4.8 x 6.8 x 4.8" (12.2 x 17.3 x 12.2cm)

Electrical (50/60 Hz): 120 volts, 1.2 amps, 150 watts


Weight: 11.7 lbs (5.3 kg)

- Five year warranty / CMC & Five year AMC

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Spectrophotometer

- Micro-controller based Double Beam
- Graphic LCD
- 190 - 1100 nm Range
- 1 nm Bandwidth
- Compliance with Pharmacopoeia
- GMP & GLP Compliance
- Holographic Concave Grating
- Automatic source optimisation, Base line calibration & Cell optimisation
- %T, Abs, Conc. (K factor, Multi standard), Multi component measuring modes
- Single Wavelength, Multi Wavelength, Scan & Time Scan operating modes
- Printer interface for 80 Column D.M. Printer
- PC interface (Optional)
- Single Position 50/100 mm Cuvette Holder (Optional)
- Five year warranty / CMC & Five year AMC

The image shows four distinct handwritten marks in black ink. From left to right: a stylized signature, a set of initials, a circular stamp or mark, and another signature.

Incubator Electrical

1. Temperature range: 5° C above ambient to Min. 75° C with + 1° C increments and accuracy.
2. Temperature stability: + 0.2° C

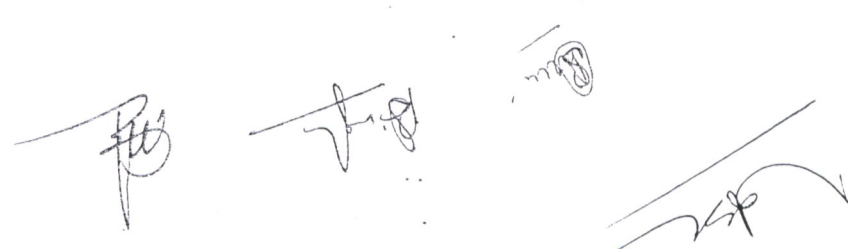
3. Fuzzy-Logic microprocessor based control with LED display Digital displays for time and temperature.

4. Natural and Forced air convection with selectable fan speed from 0-100%.
5. Minimum 200 litres chamber volume.
6. Programmable with adjustable timer.

7. Exterior corrosion resistant powder coated steel with rounded corners.
8. Interior Stainless steel with perforated SS shelves.
9. Double Doors with frame less inner fiber glass or glass door for sample observation without temperature drop. Doors should open 180° C for easy loading of samples. Silicone gasket on main door to minimize heat loss.

10. Adjustable shelves (Flexible) with minimum 2 trays but provision for at least 5 more, shelves should be capable of carrying a load of min. 25 kg.
11. Should include mercury free thermometer.
12. Over temperature protection with visible and audible alarms.

13. The units should be stackable without the need for using tools
14. Five year warranty / CMC & Five year AMC



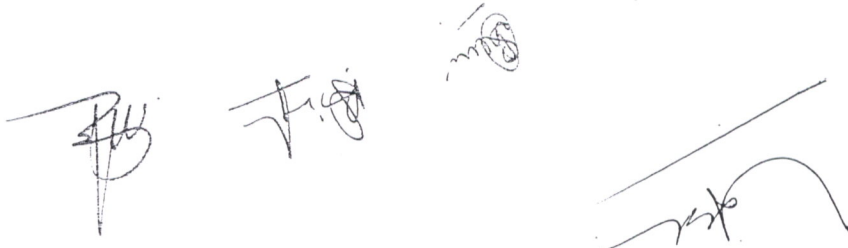
MICROSCOPE

Optical System	Infinity Optical System F=200mm
Viewing Head	Seidentopf Binocular Tube, Interpupillary distance 52~75mm, 30° inclined, 360° rotatable
Eyepiece	*WF10X/18mm with the high point
Focusing	Coarse and fine Knob
Nosepiece	Division 0.001mm, Max: 20mm.
Objectives	Quadruple Inward Achromatic 4X/0.10 Achromatic 10X/0.25 Achromatic 40X/0.65 Achromatic 100X/1.25 (S,O)
Condenser	Swing type NA=1.25 (O) with the Iris diaphragm Coarse and fine Knob
Focusing	Division 0.001mm, Max: 20mm
Stage	Stage Size: 142×135mm Moving Range: 76×52mm
Illumination	6V 20W Halogen Lamp, Adjustable
Filter	Blue
Mobility/portibility	Portable
Specification	Five year warranty / CMC & Five year AMC

Handwritten signatures and initials are present above the table, including a large signature on the left and several smaller initials and marks on the right.

Hot Air Oven

- Construction: Double walled.
- Outer Chamber: Outer Chamber is made of Mild Steel with epoxy powder coated.
- Size in mm - 600 X 600 X 600 mm
- Inner Chamber: Made of Stainless steel 304 grades
- Insulation: The gap between the walls 23/4 mm. is filled with insulation of high grade glass wool Non Hygroscopic K-Factor to prevent any heat loss and ensure constant temperature.
- Shelves: Inner chamber has ribs for placing the shelves at convenient levels. Supplied with 2 Nos, removable shelves of S.S. for keeping the samples under test.
- Heating Element: Heating Element is made of high quality Al nickel /chrome plated nichrome wire which are put inside beads and placed at the bottom and in both side ribs for uniform temperature all over the work space.
- Temperature Control: Temperature is controlled by microprocessor based PID electronic digital temp.
- Controller cum indicator.
- Temperature range: Temperature range ambient to 250°C + 1°C.
- Ventilation: Air ventilator will be provided on top.
- Control Panel: The equipment will be provided with main switch, pilot lamp & temp. Controlling knob.
- Power: Suitable to operate on 220/230 volts, 50 Hz, Supplied with cord and plug.
- Five year warranty / CMC & Five year AMC

The image shows several handwritten signatures and initials in black ink. On the left, there is a signature that appears to be 'P.H.'. In the center, there are initials 'J.F.' and a circular stamp or mark. On the right, there is a long, sweeping signature that looks like 'K.K.'.

Magnetic Stirrer

- Digital LCD display with back light
- The NuMIS-500 hot plate magnetic stirrer is operated by a digital control CPU. The CPU regulates the heating up to 300 °C
- Stirring speed is also controlled by the CPU from the keypad while the stirring speed is indicated on the bar graph.
- Programmable
- Operator can setup the objective temperature, hold temperature, stirring time and speed.
- Automatic Temperature Control
- Connect the temperature probe and place into glass container being stirred to measure and maintain the object temperature.
- Accuracy is ± 1 °C.
- Display-LCD
- Speed(RPM)- 1250 rpm
- Plate Size(mm)- 135 x 135 mm
- Top Plate Size- Steel
- Max. Volume (ml)- 2000
- Max Temp. (Plate Surface)- 300°C
- Temp.resolution-0.1°C
- Temp. Accuracy- ± 1 °C(<100°C) ± 3 °C(>300°C)
- Power Wattage-600 W
- Dimension LXWXH (mm)- 230 x 180 x 120
- Five year warranty / CMC & Five year AMC

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VERTICAL GEL ELECTROPHORESIS WITH POWER PACK

1. Electrophoresis system with 20x20 cm gel size with capacity of 1-4 gels simultaneously.
2. ~~Should have integrated spacers with glass plates for ease of casting.~~
3. Should be a modular system to support blotting and electro elution also in the same system.
4. Should come all standard accessories like 10 well, 1.00 mm comb, 5 sets of glass plates -both spacer plates, and short plates.
5. Should come with sample loading guide.
6. Five year warranty / CMC & Five year AMC.
7. Power Pack Specification:

- Output range (programmable) 10-300 V, fully adjustable in 1 V steps
- 4-400 mA, fully adjustable in 1 mA steps
- 75 W (maximum)
- Type of output Constant voltage or constant current with automatic crossover
- Timer 1 min-99 hr 59 min, fully adjustable
- Pause/resume function Yes
- Display 3-digit LED

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Pipettes

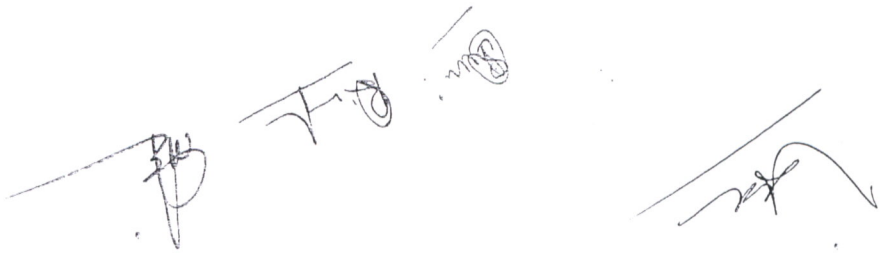
1. Spring Loaded Tip Cone: improved ergonomics. Tight fit to the tip (not in 2ml and 10 ml tips).

2. **Adjustment Opening:** Adjust your pipettes to a specific liquid & volume. Control Button: Very low operating force, colour indicates pipette volume.
4. Volume Display: 4 digits, Magnifying shape.
5. Perfect Piston System: Ultra light system made of Forton.
6. Quick Connection Clip: Remove lower part easily.
7. Fully Autoclavable
8. With Pipettes stand
9. Five year warranty / CMC & Five year AMC

Different Volume Range for single channel:

- 0.1-2 microlitre
- 0.5-10 microlitre
- 2-20 microlitre
- 10-100 microlitre
- 20-200 microlitre
- 100-1000 microlitre

Two sets:



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- Capacity-300g
- Readability-0.001 g (1 mg)
- Repeatability (±)-0.001 g
- Linearity (±)-0.002 g
- Pan Size (mm) - 90 mm
- Five year warranty / CMC & Five year AMC

Balance

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VORTEX

- Speed range - 500-3000 rpm
- Time of acceleration - 3 sec
- Vortex - upto 50 ml tube
- Orbit - 2 mm
- Weight, not more - 1.5 kg
- External power supply - DC 12V, 500 mA
- Five year warranty / CMC & Five year AMC

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Incubator With Thermostat

- Temperature from ambient to 60°c.
- Thermostatic control, with accuracy.
- Double walled units with outer chamber made of M.S. sheet duly epoxy powder coated & Inside chamber made of stainless steel 304 grade.
- The gap between inner and outer chamber is filled with high grade glass wool to avoid thermal losses. perforated selves to convenient height.
- The door is fitted with glass viewing window to facilitate inspection of sample without disturbing the test temperature. Air ventilators are also provided on the sides of unit.
- Door with synthetic rubber gasket
- Over current protection
- Supply 220V 50HZ AC

• Five year warranty / CMC & Five year AMC

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Refrigerator

- Frost-free Double-door refrigerator; 340 litres capacity
- Intellisensors on display panel, on FC and on RC
- Deep freezer, tower cooling, everyday fresh tray, fresh flow flexi-vents and active deo
- Fruit crispener with microblock
- UI, side pocket and stabilizer free operation
- Five year warranty / CMC & Five year AMC

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- Ambient +5°C to 99°C operation
 - temperature stability of 1°C
 - Drain tap included in models
 - Small volume microtube water bath ideal for life science applications
 - Fixed thermal cut-out - protects the user if the bath is accidentally run without water or in the very unlikely event of failure of both control systems
 - User settable, over-temperature sample protection - protects samples from over-heating
 - Digital PID control for quick heat-up and precision control throughout the temperature range
 - Clear, wide-angle viewing digital LED display
 - Stainless steel tank - high grade steel with durable polished finish
 - Clean, painted steel case - maximum chemical and abrasion resistance
 - Stainless steel upper lid
 - Raised feet - allow lifting whilst holding base of tank
- Volume range----- 18-20 litres

• Five year warranty / CMC & Five year AMC

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