

List of ancillary Equipment

1. Table top laboratory Centrifuge
2. Vortex Mixer with digital display
3. Pipettes, single channel (20-200 ul) (2 sets)
4. Pipettes, single channel (100-1000 ul)(2 sets)
5. Refrigerator (2° to 8° C)
6. Deep freezer (-20 degree Celsius) along with voltage stabilizer
7. Deep freezer (-80 degree Celsius) along with voltage stabilizer
8. Table Top Microcentrifuge with 2.0 ml tube rotor
9. Table Top Microcentrifuge with PCR Microtitre plate rotor

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1. Table top laboratory centrifuge**Compact table top laboratory centrifuge with**

1. Speed Regulator: Maximum speed required at least 4000 rpm with increment of at least 100 rpm
2. Safety Lid Lock
3. Digital Speed Meter
4. Timer for setting time between 0 to 60 with increment of at least 5 min
5. Rotor: Angled head with capacity for at least 3-8ml blood tubes fit
 - o Adaptors Each With Capacity of 6 ml tube
 - o Adaptors Each With Capacity of 8 ml tube.
6. Facility for level adjustment and firm base to prevent walking and provide assure stability while equipment is in use.
7. Electrical compatibility:
 - i. Must be compatible at 220 V, 50/60 Hz.
 - ii. Power plug should fit on Indian system of electrical supply.
8. Should be able to accommodate minimum 12 tubes at one time.
9. The product must be CE (European)/ BIS approved

Other conditions:

1. The supplier will provide 6 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs
2. The manufacturer should be able to provide service of equipment across India within 24 hrs after receipt of breakdown report for the metro location and within 3 days for the non metro located instruments.
3. Purchase reserves the right to subject the equipments for independent evaluation of performance.
4. The company will provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipments at no extra cost
5. Company will be responsible for Training of lab staff on operation of equipments.
6. Manuals: Operation, maintenance & part list with detailed specifications must be provided in original

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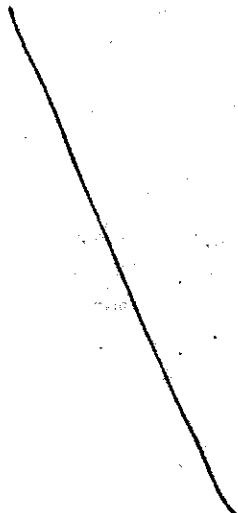
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2. Vortex mixer with digital display

1. Adjustable to 100 to 2500 rpm
2. Continuous and intermittent "touch-control" modes
3. Heavy cast-metal base and suction cup to assure stability prevent "walking"
4. 220-230 Volts, AC, 50HZ;
5. Digital Display :LED
6. Capacity of 2-3 kg and orbit of 35mm required.
7. The product must be CE (European)/ BIS approved

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3. Pipettes

Single channel (20-200ul)

1. Single channel with variable volume
2. Volume Range: 20-200 ul
3. Dispensing Increment- 1 ul
4. Volume adjustment facility
5. Ejector
6. Volume display
7. Compatible for universal tips available in India.
8. Calibrated pipette to be supplied along with calibration certificate
9. Fully autoclavable
10. The product must be CE (European)/ BIS approved

4. Pipette

Single channel (100-1000ul)

1. Single channel with variable volume
2. Volume Range: 100-1000 ul
3. Dispensing Increment- 1 ul
4. Volume adjustment facility
5. Ejector
6. Volume display
7. Compatible for universal tips available in India.
8. Calibrated pipette to be supplied along with calibration certificate
9. Fully autoclavable
10. The product must be CE (European)/ BIS approved

Other conditions:

1. Manuals: Operation and maintenance with detailed specifications must be provided in original
2. The supplier will provide 2 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs

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5. Refrigerator

Type	: Single Door
Refrigerator Type	: Top Freezer Refrigerator
Defrosting Type	: Direct Cool
Refrigerant	: CFC/HCFC free non-inflammable
Compressor Type	: Reciprocatory Compressor
Capacity	: 230±10 L
Number of Doors	: 1
Star Rating	: 5
Coolpad	: Yes
Toughened Glass	: Yes
Built-in Stabilizer	: Yes
Express Freezing	: Yes
Moisture Control	: Yes
Other Performance Features	: 12 hrs Cooling Retention During Power Cuts,
Advanced Moisture Control	
Clock	: No
Door Lock	: Yes
Removable Gasket	: Yes
Warranty Summary	: 1 Year on Refrigerator & 10 Years on Compressor

Other conditions:

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2. The manufacturer should be able to provide service of equipment across India within 24 hrs after receipt of breakdown report for the metro location and within 3 days for the non metro located instruments.
3. Purchase reserves the right to subject the equipments for independent evaluation of performance.
4. The company will provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipments at no extra cost
5. Company will be responsible for Training of lab staff on operation of equipments
6. Manuals: Operation, maintenance & part list with detailed specifications must be provided in original
7. The product must be CE (European)/ BIS approved

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6. Deep Freezer -20 ° C along with Voltage Stabilizer

1. Capacity 370-400 Lts or better
2. Microprocessor controlled vertical (upright) deep freeze (-20°C) with adjustable 3-4 interior compartments/ adjustable shelves with preferably two internal doors
3. Digital display of temp with facility to set temp between -10 to -40°C with 1°C increment
4. CFC/HCFC free non-inflammable refrigerant
5. Polyurethane vacuum insulation with silicon gasket on doors for tight sealing
6. Double door with lockable outer door
7. Audio-visual alarm for temp. deviation, power failure, door open etc.
8. Low noise level: ≤60 decibel 50Hz/230V
9. Minimum 3 star 2.0 ton split AC for optimal operation during the summer season with voltage stabilizer
10. Suitable voltage stabilizer
11. The product must be CE (European)/ BIS approved

Other conditions:

1. The supplier will provide 6 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs
2. The manufacturer should be able to provide service of equipment across India within 24 hrs. after receipt of breakdown report for the metro location and within 3 days for the non metro located instruments.
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7. Deep Freezer -80 ° C along with Voltage Stabilizer

1. One - 80 degree deep freezer system with temperature control/display,
2. Temperature range: -50 to -86^o C,
3. Capacity cu ft/liters: 350 or more,
4. Cryobox Capacity 2":230 or more,
5. Max. shelf weight: 120lbs/65 kg or more,
6. CFC/HCFC free non-inflammable refrigerant
7. Refrigeration Compressor HP: Two of minimum 1.0 HP each
8. Voltage: 230V, 50/60 Hz.
9. Heavy gauge, cold rolled steel cabinets with a powder coat paint finish for a uniform exterior that resists chipping and rust,
10. 5" (12.7 cm) foamed-in-place polyurethane insulation/ VIP insulation technology
11. Vacuum relief port/ pressure equalization port for easy access after door openings,
12. Easy to remove washable filter for protection from dust on the condenser and increasing refrigeration performance,
13. Single hand operation with an easy-to-use padlock-compatible, ergonomic door handle with integrated key lock,
14. Simplified installation with our new easy -roll 2" locking casters,
15. Four inner doors to reduce cold air loss and improve temperature recovery after door openings,
16. Microprocessor control and monitoring system to ensure that all controls and displays are easy to reach and read, power management system with low voltage surge protection and buck/boost,
17. Safety-backup systems for additional sample protection in the event of power or mechanical failure.
18. Suitable voltage stabilizer to be supplied to support the instrument
19. Minimum 3 star 2.0 ton split AC for optimal operation during the summer season with voltage stabilizer
20. The product must be CE (European)/ BIS approved

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Table Top Micro centrifuge with 2.0 mL tube rotor:

Product Features:

1. Micro centrifuge tube rotor with aerosol tight lid (accommodate minimum 18 micro centrifuge tubes)
2. Lid automatically pops open at the end of the run
3. Automatic door interlocking during centrifuge run
4. Display & process should abort immediately on imbalance detection
5. Robust anti-vibration system
6. Brushless induction motor, frequency drive, maintenance free operations
7. Low access height: <30cm
8. Range RCF: 1000-28,000 x g (with tube rotor)
9. Range RPM: 1000-14,500 /min (with tube rotor)
10. Display: Backlit LCD/LED display
11. Acceleration and deceleration time to max. rpm : <15 s
12. Braking time to maximum rpm : <15 s
13. 220-230 Volts, AC, 50HZ
14. Microprocessor keypad for programming and easy cleaning
15. Menu guided operation
16. Noise level - <70 dB
17. Timer setting: 10 seconds to 99 minutes
18. Emergency lid opening provision during power failure situations
19. Centrifuge must confirm the latest clinical and safety standards as prescribed by electrical and other agencies
20. The product must be BIS/CE (European) approved

Other conditions:

1. The supplier will provide 6 years warranty that will include Comprehensive Annual Maintenance Contract (CAMC) including all spare parts and repairs and bi-annual calibration
2. The manufacturer should be able to provide service of equipment across India within 24 hrs. after receipt of breakdown report for the metro location and within 3 days for the non-metro located instruments
3. Purchaser reserves the right to subject the equipment for independent evaluation of performance
4. The company will provide installation qualification, operational qualification and performance qualification with log book for maintenance of the equipment at no extra cost
5. Company will be responsible for Training of lab staff on operation of equipment
6. Manuals: Operation, maintenance & part list with detailed specifications must be provided in original

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01/04/2019

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Q. Table Top Micro centrifuge with PCR microtiter plate rotor:

Product Features:

1. Micro centrifuge with Plate Rotor included (accommodate minimum 2 PCR plates)
2. Maximum RCF: 2,000 (± 200) x g
3. Maximum RPM: 3,500 (± 200)/min
4. Lid automatically pops open at the end of the run
5. Automatic door interlocking during centrifuge run
6. Display & process should abort immediately on imbalance detection
7. Robust anti-vibration system
8. Brushless induction motor, frequency drive, maintenance free operations
9. Acceleration and deceleration time to max. rpm : <15 s
10. Braking time to maximum rpm : <15 s
11. 220-230 Volts, AC, 50HZ
12. Microprocessor keypad for programming and easy cleaning
13. Menu guided operation
14. Noise level : <70 dB
15. Display: Backlit LCD/LED display
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