

Specifications of Minor Equipments (not Available on GeM)

Sr. No.	Instrument	Specifications
1.	Bio-safety cabinet	<ul style="list-style-type: none"> • Class II, Type A2(Provision for circulation of air 70% or more • Dimension: 5 ft or more • Automatic Air flow adjustment for user, product and environment safety • Microprocessor control of air velocities in real time with display • Smooth interiors and exteriors • Low Noise level • With lock facility and castors • Highly resistant to corrosion. Easy to clean • Powerful UV tube lights with optical reflectors to ensure uniform intensity distribution of the UV radiation throughout the cabinet along with white light. • Control system for the choice of timed UV exposure from 5 to 30 minutes • With Pre-filter and HEPA filters with efficiency more than 90% • Auto Speed increase on door opening for maintaining air velocity • NSF and EN certified • Audible and visual alarms for HEPA filter failure, blower failure, air flow speed failure • Provision for vacuum, water and non-combustible gas • Door sensors for auto switch off of UV lamps if door flap is opened. • Spare UV tube, Spare white light. • Ports for cable access. • Steel Trolley with Cupboard
2.	Drying cabinet	<ul style="list-style-type: none"> • Key locks on main door • Digital display for temperature and humidity • With lock facility and castors • Re-circulatory with HEPA filters • Heater to maintain ambient temperature • Corrosion proof interior design • A drain outlet with flexible hose • Inside space to provide full length hanging with removable shelves for storage or smaller items
3.	Pre-treatment water purification plant	<ul style="list-style-type: none"> • Pre filtration system to remove suspended matter from tap water. • 5 micron and 1 micron wrapped type depth filter • Inbuilt pretreatment cartridge with anti-scaling compound, activated carbon and 0.5 micron filter. • High flux thin film composite polyamide RO membrane with 95-99% rejection.

		<ul style="list-style-type: none"> • Conductivity cells before and after RO • Mixed bed electro deionization module, EDI module should contain active carbon beads at cathode • System should contain a display which also indicates system performance • Reservoir size: 100L or better
4.	Suction unit	<ul style="list-style-type: none"> • Easy to use portable surgical aspirator. • High vacuum/High flow suction type. • Equipped with vacuum regulator and vacuum display. • Supplied with a graduated Autoclavable 1 liter secretion collector. • Variable suction speed. • Should be supplied with aspiration pipes.
5.	Mix Mate	<ul style="list-style-type: none"> • Electrical requirements: 220V, 50 Hz • Mix Mate with 3 tube holders: PCR 96, 0.5ml, 1.5/2.0mL • Low volume mixer with integrated vortex function including 3 tube holders: PCR 96, 0.5ml.1.5/2.0ml • Mixing in a 3-in-1 formats • Mixes Plates up to 96 formats • Vortexing different tube formats, Pre-programmed direct selection keys • 2D Mix-Control and Anti-spill technology • Automatic imbalance detection and extremely quiet operation • Mixing frequency: 300-3000 rpm (in 50 rpm increments) • Touch vortexing frequency: 3,500rpm • Adjustable mixing time
6.	Thermo-mixer	<ul style="list-style-type: none"> • Temperature control range from ambient to 99°C, incubation accuracy: $\pm 0.5^{\circ}\text{C}$ above ambient temperature • Temperature setting in the increments of 0.1°C • Mixing frequency: 300-2000rpm • Instruments should have the flexibility to accommodate different tube formats and plate formats like micro titre plates, deep well plates, 96 well plates • Blocks should have sensors, calibrated and exchange should be simple and instrument should be able to identify the blocks automatically and their respective speed and temperature • With vortex and short mixing facility, 3D shake facility, anti-spill and anti-vibration technology
7.	Plate Centrifuge	<ul style="list-style-type: none"> • Multipurpose refrigerated micro centrifuge with aerosol tight rotors for 96 well plate, 1.5ml/2ml tubes, 15 ml/50ml tubes. • Automatic rotor recognition and imbalance detection. • Maximum speed: 12000rpm or more for 1.5ml/2ml tubes; 6000 rpm or more for 15ml/50ml tubes; 3500 rpm or more for 96 well plate. • Acceleration time to maximum speed: 15 sec or better. • Deceleration time from maximum speed: 15 sec or better.

		<ul style="list-style-type: none"> • Low noise level. • Fast and ergonomic lid locking. • Automatic lid opening at the end of run. • Water proof keypad and program keys.
8.	Water bath Temp controlled	<ul style="list-style-type: none"> • PID temperature control for optimal temperature stability • Working Temperature range from +20 to 99.9 °C or better • Adjustable shaking frequency from 20 to 200 rpm • Integrated circulation pump for temperature homogeneity • Bath tank and other parts that contact the water should be made of high quality stainless steel • Removable bottom plate and shaking inserts • LED display for indication of temperature, shaking frequency, etc. • Built in timer for setting the running time • Seamless and water proof keypad • Drain screw for emptying of water bath
9.	Gel Electrophoresis system with power supply	<ul style="list-style-type: none"> • Agarose Gel electrophoresis system along with power supply • Agarose Gel Electrophoresis system <ul style="list-style-type: none"> ➤ Gel Size (W X L in cm): 7 x 7 or 7 x 10 or better ➤ Tank should accommodate at least two combs per gel. ➤ Gel casting gates for tape free casting. ➤ Clear plastic construction for easy sample visualization. ➤ Color coded labeled electrodes, base for correct positioning of lid. ➤ Provision of easy lid removal to prevent buffer spillage. ➤ Easy to replace electrode assemblies. ➤ UV transparent gel trays, with fluorescent ruler. • Power supply Unit: <ul style="list-style-type: none"> ➤ Atleast three sets of output terminals to deliver constant voltage or current. ➤ Output range: Voltage: 10 – 300V, Current: 4-400 mA, Power: 75 Watts or better ➤ LED display for voltage, current, power and time. ➤ Safety features: Overload/short-circuit detection; overvoltage protection etc.