Specifications of Minor Equipments (not Available on GeM)

Sr. No.	Instrument	Specifications
1.	Bio-safety cabinet	 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.
2.	Drying cabinet	 Steel Trolley with Cupboard 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	 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.

4.	Suction unit	 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 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	 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	 Temperature control range from ambient to 99°C, incubation accuracy: ±0.5°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	 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.

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		• 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	 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
		 Agarose Gel electrophoresis system along with power
9.	Gel Electrophoresis system with power supply	 Agarose Gel Electrophoresis system along with power supply Agarose Gel Electrophoresis system 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: 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.