

SPECIFICATION OF INCUBATOR SHAKER**The instrument should have following Features:**

- Should be Integrated incubator and shaker.
- Should have good temperature uniformity.
- Should cause low noise.
- should have Micro-processor based temperature controls and shaking speed.
- Should have built in timing functions.
- Should have Built-in cover switch.
- Should have Independent temperature alarm system.
- Speed Range: 50rpm ~300rpm
- Temp. Control Range: R.T.+5 ~60°C
- Temp. Setting Range: 5 ~60°C
- Temp. Stability@37°C: $\leq \pm 0.3^\circ\text{C}$
- Temp. Display Accuracy: 0.1°C
- Voltage AC: 220V / AC 110V, 50/60Hz
- Power: 400W
- Dimension (WxDxH) : 360 x 435 x 320mm
- Optional Platform: Universal Platform with Springs

SPECIFICATION OF UV-VIS DOUBLE BEAM SPECTROPHOTOMETER**The Instrument should have the following features:**

Wavelength Range:	190-1100nm
Spectral Bandwidth:	1nm
Optical system:	Double Beam, Blazed Holographic grating (1200 lines/mm)
Wavelength Accuracy:	$\pm 0.5\text{nm}$
Wavelength Repeatability:	$\leq 0.2\text{nm}$
Wavelength setting:	Auto, Resolution 0.1nm
Photometric Range:	0-200%T
Photometric Accuracy:	$\pm 0.002 \text{ A}(0-0.5\text{A})$
Photometric Repeatability:	$\leq 0.001 \text{ A}(0-0.5\text{A})$
Stray Light:	$\leq 0.05\%T(220/360\text{nm})$
Scan Speed:	High, Medium, Low. Max.2000nm/minute
Sample Compartment:	10mm Pathlength Cuvette
Detector:	Silicon Photodiode
Lamps:	Tungsten Lamp & Deuterium Lamp (Pre-aligned)
Display:	Graphic LCD (320*240 Dots)
Output Port:	USB Port
PC Software:	PC Scanning Software

Power Requirements: AC 90-250V, 50/60Hz
Dimension: 635x515x255mm
Holder: 8 cell holder

SPECIFICATIONS OF DIGITAL WATER BATH:

The Instrument should have the following features:

- Should have two-color LED display with dual window.
- Should have temperature display accuracy 0.1°C .
- Should have temperature alarm system.
- Temp. Range: Ambient +5 - 200 °C
- Temp. volatility: $\pm 0.05 - \pm 0.2$
- Tank size (mm): 200
- Pump Flow: 10-15

SPECIFICATION OF DRY BATH:

The Instrument should have the following features:

Should have LCD displays.

- Should have automatic fault detection and buzzer alarm function
- Should have temperature calibration function.
- Should have built-in over temperature protection.
- Should have safety protection .
- Should hav CE standard.
- Should have temp setting range: 0°C~100°C
- Should have temp range : RT ~100°C
- Should have temp accuracy: $\leq \pm 0.3^{\circ}\text{C}^*$
- Should have temp uniformity: $\leq \pm 0.3^{\circ}\text{C}^*$
- Should have eating time range: 10-12min (From RT°Cto100°C) *
- Should have Auto heating function
- Should be compatible with AC220V/50-60HZ power supply
- Should have blocks for 35×1.5ml Centrifuge Tube

SPECIFICATION OF DIGITAL MAGNETIC STIRRER CUM HOT PLATE

The instrument should have the following features:

- Should have PID for temperature control.
- Should have Two display windows.
- Should have low overshoot($\leq \pm 5^{\circ}\text{C}$).
- Should be user friendly.
- Should have Semiconductor based technology control output.

- Should have facility for stirring standard/non-standard reaction flasks from 50ml to 20L
- Should have anti corrosion outer metal shell
- Should have Magnetic stirring technology with varying speed.
- Should have speed range 200-1200rpm
- Should have temp range RT-340 °C
- Should have 600W power
- Should be compatible with AC220V, 50/60HZ power supply
- Should have temp. stability ± 3 °C

SPECIFICATIONS OF DIGITAL HOT AIR OVEN

The instrument should have the following features:

- The outer body should be made of PCRC sheet duly powder coated.
- The inner chamber and perforated trays should be made of Stainless Steel (SS-304).
- The space between inner chamber and outer wall should be filled with high grade mineral wool for minimal heat dissipation.
- The internal dimensions (W×D×H) mm should be 450×450×450
- Should have 95ltrs capacity.
- The heat load be 1.5 KW.
- Should have at least two shelves.
- Should have temperature range 50°C-200 °C+1 °C
- Should have Forced Convection System
- Should have microprocessor based PID digital temp. indicator cum controller with LED display

SPECIFICATIONS OF DEEP FREEZER:

The instrument should have the following features:

- Should have 345L capacity.
- Should have temperature range from -17 to -24°C
- Should have wheels
- Should have lock
- Should have manual defrost function
- Should have eight or more shelves
- Should have single door