

### Portable slit lamp for ophthalmoscopy

- Slit Lamp Hand-held
- Rechargeable and cordless
- The lamp should provide a easily selectable variable slit width
- 16x or more magnification should be available.
- Touch ON/OFF should be present.
- Built-in cobalt blue filter
- Extra-bright halogen lamp light source
- Simultaneous charging of main and extra power pack
- Supports digital / video with the optional video adapter (c-mount)
- A compatible spare Li ion battery should be quoted
- A warranty of more 10 years should be provided

### UV-White Light Transilluminator

- Installed UV lamp (302nm) and white light lamps with UV blocker safety cover
- UV intensity should be approximately 8000uW/cm<sup>2</sup>
- Two illuminated areas of  $\geq 400\text{cm}^2$  . White light trans-illuminators to view autoradiographs, x-ray films, microtiter plates on the white light transmitting glass surface.
- Plexiglass and glass surfaces are double-safety sealed into the unit for durability that provides a scratch and chemical resistant work area.

### Vacuum Gel dryer

- Gel drying System for drying large gels sizes of equal to or more than 33cmx 42cm or multiple small gels @ 220/240V,
- Vacuum Pump that provides  $\geq 25''$  Hg pressure and there should be a provision of Vacuum gauge
- Preferably there should be separate vacuum and heat timers
- The apparatus should provide even heating
- It should have  $\geq 9$  hrs of operating time and LED display should provide the readings of time left.
- Operating temperature should be  $\geq 80$  degrees Celsius
- Should include Power Cord (Indian made)
- Should provide Porous Gel support, and Transparent Sealing Gasket,
- Filter paper backing and Cellophane membrane
- Preferably should be provided with vertical stacking options to increase the numbers of gel dryer units

## Table top Incubator Shaker

- A compact system with a temperature range of 5°C above ambient to 80°C or more with control of  $\pm 0.1^\circ\text{C}$ ,
- flexible to use for a broad range of applications.
- Dual shaking modes: orbital or reciprocating action preferable
- Speed range: 25 to 500 rpm or more.
- LCD display with readable 1 RPM increment, 1 min increment,  $0.1^\circ\text{C}$  increment
- Programmable shaking motion. – Continuous and timed operation range: 1 min to 99 hr.
- - Forward & Backward, Pause setting
- Orbital motion should be approx. 2.5 cm.
- Temperature uniformity:  $\pm 0.3^\circ\text{C}$  at  $37^\circ\text{C}$
- Platform size- compact, approximately 45x45cm
- Height: should not be more than 91cm with lid open
- Double-wall, insulated chamber which will ensure optimum, controlled uniformity of temperature.
- Durable, molded, clear acrylic lid with triple-point reinforced hinges withstands years of use without cracking or discoloring is preferable
- Feature ensuring safety and long life should be available such as Spill tray, sealed electronics etc
- Twin blowers are preferable for ensuring temperature uniformity.
- Microprocessor: PID control or better; Microprocessor
- Power : 230Volt 50 Hz (Indian power cable)
- functions are calibrated easily through the keypad
- Audible/visual over and Under temperature tracking alarms
- Required accessories such as different types of platforms and flask clips including microplate clip, larger flasks (equal to more than 5 litres), and smaller flasks ranging from 25 ml to 2 liters should be quoted as optional

## Microplate Spectrophotometer:

- A spectrophotometer that has compatibility with microplates ranging from 6 to 384 wells as well as cuvettes for small volumes (less than 5ul).
- The samples can be read by a monochromatic absorbance over a range of wavelengths (200-999nm) with equal to or less than 1nm increment (a spectral resolution of 1nm).
- The instrument should be able to provide complete spectra of the sample in short time span in addition to kinetic and end point reading method.
- The ambient temperature should be  $+4^\circ\text{C}$  ( $\pm 1$ ) to  $60^\circ\text{C}$  ( $\pm 5$ ).
- The system should be able to afford shaking of the sample plates to ensure uniformity in readings.
- The lamp should be a xenon flash lamp and the bandpass should be  $5\text{nm}(\pm 0.1\text{nm})$ . The shelf life and the emissive power for the entire range of xenon lamp should be mentioned. A spare xenon flash lamp should be quoted separately.
- Should have a data transferability option using USB port.
- A compatible laptop/desktop and a printer should be quoted along with the instrument.
- The accessories for plate holder, the advanced version of the suitable software as well as quality check buffers/solution must be provided
- A minimal of five-year warranty on the software, hardware and the up gradation option as and when the newer version of software is available should be included.