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Specifications for Semi-Automatic Microtome(Cryostat)

System should be Rotary and Open-top cryostat.

Rotary microtome should be suitable to cut uniform thin sections in the range of 1 to 100 μ m in step of 1 μ m of a variety of materials for detailed microscopic examination.

System should have Fine section thickness range 1 - 100 μ m Fine section thickness resolution 1 - 10 μ m in 1 μ m steps 10 - 20 μ m in 2 μ m steps 20 - 50 μ m in 5 μ m steps 50 - 100 μ m in 10 μ m steps.

System should be integrated with the LCD touch screen operation.

System should be integrated with the LED light in the Chamber for view.

The microtome operation should be based upon the rotary action of a hand wheel and motor set in motion on rigidly held knife.

System should maintain the chamber temperature range from 0 to -35°C

System should have one automatic defrost cycle/ 24 Hrs. time controlled / temperature controlled auto/ manual defrost.

System should be spacious and of Stainless-steel cryochamber with antiglare illumination.

System should have suitable compressor for chamber cooling with CFC free refrigerant.

System should have large cooling chamber with plain surfaces and draining system, easy to clean and disinfect Cutting drive should be manual.

System should have course feed completely motorized and electronically controllable.

System should have an option for specimen retraction.

System should have cutting speed ranging from 0 to 250 mm/sec.

System should have trim thickness ranging from 5 to 500 μ m.

System should have specimen orientation of x- and y-axis, Z-axis up to 360°.

System should have heated sliding window to overcome condensation.

System should have at least four Peltier quick freeze stations with temperature of -55°C ±1°C

System should have Integrated, smooth hand wheel that locks in any position.

System should have Option to use both standard knife holder and disposable blade holder. The Knife holder should have knives from 110 to 185 mm long by 28 to 35 mm wide and has guards for protection both inside and outside clamp

System should be equipped with UV for chamber decontamination.

System should be equipped with Programmable "Memory function" for fast and automatic retrieval of a prestored start position of sectioning.

The unit should be moved by means of steering castors with locking screws.

System must have CE /FDA certification and manufacturing company must have ISO.

System should take power input of 220-240VAC, 50Hz fitted with Indian plug.

System should be quoted with all Standard accessories like Object orientation set, Universal Cassette Clamp, universal knife holding base, Std knife holder, sharp blade holder, section Waste tray, Dust cover, OCT compound and 50 each low and high profile disposable Microtome blades.

Additional accessories such has 5 no's of anti-roll glass plate, 2 no's of plate holders should be included with the main offer.

All consumables required for installation and standardization of system should be supplied with instrument. User/Technical/Maintenance manuals, Certificate of calibration and inspection from factory to be supplied with system.

System should have 3-year warranty.

The product should be as per CE/IEC guideline and certificate from authorized body should be submitted. No self-declaration will be accepted

The service team should be in Bangalore. Contact details of Engineer should be submitted with this offer The system should be supplied with all accessories required to function.

The system should be installed by the trained Engineer and users training should be given on Application, operation and maintenance and also for

Compliance to each of the above points should be separately indicated and evidence presence for each of them (Product brochures should be highlighted wherever required).

The service team should be in Bangalore. Contact details of Engineer should be submitted with this offer. The past performance/service support in NCBS/instem/ccamp should be satisfactory and the technical evaluation will be done accordingly.