

Annexure – A

Specifications of Equipments:-

Item No. 1:- -20^o Deep Freezer (Laboratory Use)

- i. 400 litre capacity
- ii. Vertical type
- iii. Power supply 220 – 240V, 50 Hz
- iv. Insulation with PUF with cyclopentane
Digital display of temperature
- v. CFC/HCFC free
- vi. Single Door
- vii. Internal fluorescent light
- viii. Left or right hand door opening
- ix. Castor at back of the cabinet and adjustable feet at front
- x. Door lock facility
- xi. All round sealed drawers to avoid frost when door is opened
- xii. Different chamber/drawers for partitioning objects
- xiii. Should be supplied with a ISO 9001 certified 3KVA servo voltage stabilizer
- xiv. Storage boxes and storage cryovials – 8 units

Item no. 2 Gradient PCR/THERMAL Cycler

- i. 96 – well thermal cycler
- ii. Six independent temperature blocks which can set to a specific temperature and run upto six different annealing temperatures in the same run
- iii. Color touch screen display
- iv. Option for fast or standard PCR methods
- v. Standard 0.2 mL block configuration
- vi. Protocol for transfer from one thermal cycler to another using USB
- vii. Fast ramp rates (3.9^o C/Sec)
- viii. Remote management software to remotely manage from PC or Smart phone
- ix. Temperature range: 4.0 – 99.9^o C
- x. Temperature accuracy $\pm 0.25^{\circ}$ C (35^o C to 99.9^o C)
- xi. Reaction volume range: 10-80 μ l
- xii. Temperature Uniformity: <0.5^o C (20 sec after reaching 95^o C)



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