

PCR technical specifications:

- 1- Sample capacity of 96x0.2ml tubes, 0.2ml tube strips or 1x96-well plate along with Peltier heating and cooling.
- 2- Must have gradient capability.
- 3- Dynamic ramping feature (identical hold times) for all the 8 rows of gradient.
- 4- Temperature differential range from 01 to 25°C.
- 5- Intuitive 5.7" (14.5 cm) touch screen interface which can displays graphics in high resolution for easy programming.
- 6- Touch Screen should be responsive with or without gloves.
- 7- Capable of running reaction volumes from 1-100ul.
- 8- Maximum ramp rate of 4°C/second with an average ramp rate of 2.5°C.

Temperature range from 4-100°C.

- 9- Gradient range around 30-100°C along with temperature accuracy and uniformity of $\pm 0.5^\circ\text{C}$
- 10- Memory of ≥ 500 programs with further expansion through a USB Flash drive for transfer of files.
- 11- Must have block and calculated temperature control modes.
- 12- Software must have exportable Run logs and system error logs.
- 13- Quick boot up time of not more than 1 min and quiet operation.
- 14- System must include built in library of standard protocols for long PCR, fast PCR, reverse transcription PCR etc.
- 15- Must have the feature of "instant incubation" to keep samples at constant temperature for ligation and restriction digestion reactions.
- 16- Must be compatible with all kind of plastic consumables and reagents especially reusable sealing Mats.
- 17- Must be licensed for research applications and copy of license to be attached.
- 18- PCR machine must be supplied with 2.0 KVA online UPS with 10-15 minutes back up and an inbuilt power saver mode.

Note:

- Instrument demonstration shall be required by the firm for final technical evaluation and approval of the quoted product.
- Printed literature and website link to support claimed specifications/features to be provided with technical bid.