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Department of Biotechnology

KAKATIYA UNIVERSITY,

WARANGAL - 506 009. T.S

Accredited with 'A' grade by NAAC

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No. 327/Biotech/KU/2020


Date:19.02.2020

Call for quotations

Sealed quotations are invited from appropriate firms for providing following equipments to the Department of Biotechnology, Kakatiya University.

S.No	Name of the Equipment	quantity
1.	Real time PCR	1
2.	Refrigerated shaker	1
3.	Cryocans	2
4.	Blotting apparatus	1

General specifications of the equipments are given below individually. Sealed cover quotations should reach or submit to the undersigned on or before 29.02.2020.


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Real Time PCR system

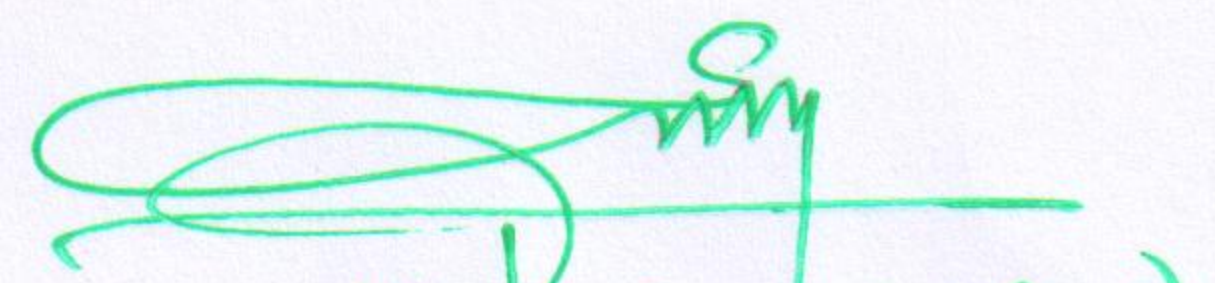
General Specifications

1. A dedicated multi-colour Real Time PCR system (excitation and emission) with latest generation Peltier-based 96-well plate/tube in-built PCR to support
2. Bright White LED for better excitation
3. The system should have features of 6 Decoupled filters to provide 21 unique combinations for various dyes..
4. System should be 6 veriflex zone for different Temperature set up programming in the same run with different set of temperature.
5. Max block ramp rate should be 6.5°C/sec with temp uniformity of 0.4°C and sample ramp rate of 3.66°C/sec.
6. CCD/CMOS Camera for detection. The data collection and instrument control software should be provided
7. Total reaction volume of minimum 10uL to 100uL, although lower would be preferred
8. System should run in FAST and standard mode.
9. Sensitivity : should detect differences as small as 1.5-fold in target quantities in singleplex reaction
10. Vendor should provide option to remote monitor runs, easily access to your data with the help of cloud.
11. System should be able to use as standalone mode (touch screen) with on board memory of minimum 10 GB.
12. Application software like dedicated primer and probe design software as well as relative quantitation analysis software to analyse multiple 96-well-plates of data simultaneously must be included as standard supply in the quoted price.
13. 3years warranty should be provided
14. **Consumables Required ;**
Taqman RNase 96well plate/Taqman Fast starter kit/Adhesive covers/96well reaction plate should be provided for initial start up of system.

Accessories ;

15. **Computer:** A business line computer with i3 5gen16gb ram &500gb hard disk should be provided
16. 5kv UPS Back up Should be provided along with system

Note: Goods has to be delivered at Department of Biotechnology, Kakatiya University, Warangal. Custom clearance, transportation etc has to be bear by the vendor. Kakatiya University will provide DSIR certificate for duty exemption.


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Refrigerated shaker

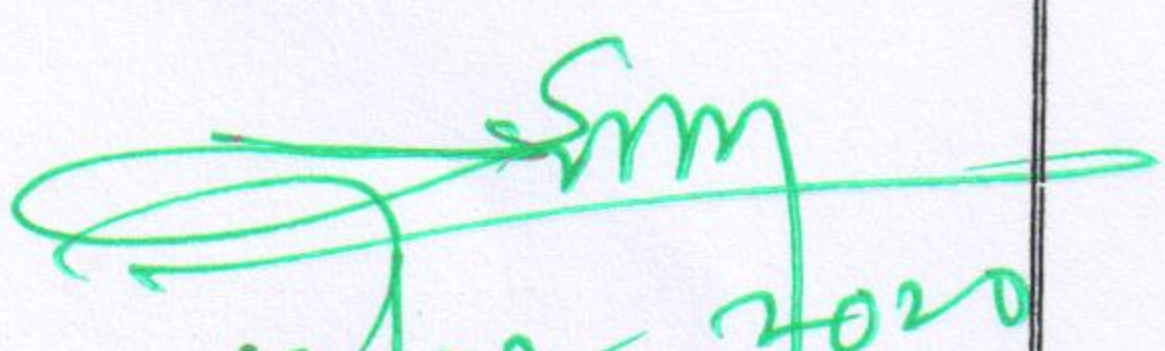
General Specifications :

1. Refrigerated single door shaker with SUS304 and outside body is powder painting
2. Temperature range should be 0°C~70°C with PID temperature control and LED Digital Display
3. Temperature Accuracy $\pm 0.1^{\circ}\text{C}$ with shaking speed 30 to 300rpm
4. Volume Approximately 80-100litres with internal dimensions 500 x 400 x 400 mm and outer dimensions 585 x 595 x 810 mm
5. Install light to view inside clearly
6. The compressor will be delayed to start working if power cut and with timer for defrost. Using environmental protection cold-media R134a.
7. Safety switch to stop shaking when opening door
8. Three-point bearing transmission should be adopted suitable for heavy loads and continuous duty
9. Transparent glass observation window
10. Brushless AC motor for long durability and stable performance of the shaking system
11. Required Overheat and over low protector, built-in circulating fan for temperature stability.
12. Temp Sensor PT -100

Accessories ;

1. 3kv Stabilizer Should be provided along with system
2. Flask clamps 125ml-30 x 2 set /250ml-18 x 2 set /500ml-12 x 2 set should be provided

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Cryocans-2 Nos

General Specifications

For Cryopreservation of solutions for long-term static storage and transportation of biological samples.

Strong and lightweight aluminium construction

- Straw storage
- High thermal efficiency
- Ultra-low evaporation loss
- Numbered index location points for canisters
- Heavy duty lockable enclosure for security

Size :


1. Volume of LN2 (L) : 6 Litres

2. Volume of LN2 (L) : 10 Litres

Accessories Required ;

- 1.Castor base for moving Cryocans
- 2.Measuring rods and Dippers

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Blotting Apparatus

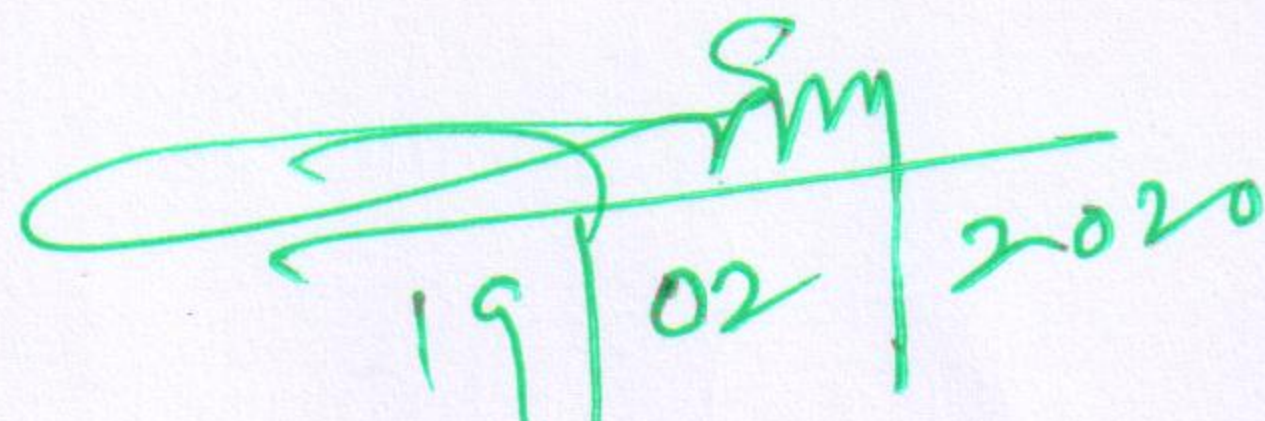
General Specifications:

1. Electro Blot Systems are primarily designed for wet electrophoresis DNA, and offer a combination of increased capacity with economical features.
2. Five gel blot cassettes may be utilized at any time for Electro Blot Mini. This is especially intensity coiled electrode and ensures uniform transfer across the blot surface.
3. The cassette's open architecture that ensures the maximum blot area allows direct transfer of current. Its rigid construction that ensures contact between the gel and membrane is retained throughout the blot and an even pressure is maintained.
4. These units should be compatible with magnetic stirrers to aid heat dispersal and prevent pH drifts in the buffer due to incomplete buffer mixing. Each unit includes a cooling pack to further enhance transfer efficiency by removing excess heat. This also saves buffer for added economy.
5. The Complete Electrophoresis Systems include both modules for gel electrophoresis, electroblotting and accessories, to provide a complete Mini gel casting, running and electroblotting system.
6. The electroblotting module should include four inter-locking cassettes and sixteen fiber pads. A high intensity current is generated by coiled platinum electrodes.
7. These features should be in conjunction with the advanced cooling system allow for rapid electroblotting in as little as one hour.
8. Versatile-Interchangeable modules for slab gel and Electroblotting using a single universal buffer tank
9. Hinged cassettes should have High intensity electrodes with Rapid set-up cooling

Accessories :

1. 500KV Power pack should be supplied along with system

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