**Name: Automated biochemistry analyzer (small, benchtop)**

1. Fully automated, random-access chemistry analyzer;

2. Throughput: minimum 20 tests/hour. small footprint

3. Must have direct ISE Unit for Na, K and Cl Measurement.

4. Must be open Ended system with bare code reading.

6. System should have 12 Wavelengths 340 to 700 nm.

7. System should be supplied with PC, windows-based interface and Bi-directional Connection.

9. Must have built in Cooled reagent Compartment

17. Sample type should include Serum, plasma, Urine, CSF, body fluids and Supernatant

18. Should have Light Source

19. Should have a minimum of 300 test Results Storage

20. Online QC Tracking with Levy Jennings Chart for up to 30 different points.

21. Must be ISO/CE/FDA or equivalent approved for clinical use

22. User’s interface Built - in/Automatic

23. Software and/or standard of communication: Built - in/Automatic/compatible, window based with data processing management system with complete back up of database for calibration, control, patient sample results on daily basis.

24. Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through a cooling mechanism.

25. Power Requirements Recharging unit: Input voltage- 220V-240V AC, 50Hz.

26. suitable water system

27. Internal or External printer (provided).

28. UPS online pure sine wave for back up of system with PC and IT peripherals for half hour.

29. Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances.

30. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.

31. Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover.

32. Requirements for sign-off Certificate of calibration and inspection from the manufacturer

33. Training of users on operation and basic maintenance.

34. Advanced maintenance tasks required shall be documented

35. Warranty, including all spares, maintenance, and calibration: to be mentioned in the quotation

37. Contact details of manufacturer, supplier and local service agent to be provided;

38. Any warning signs would be adequately displayed.

39. The supplier should provide 2 sets (hardcopy and soft-copy) of:

-Technical manual with :

* Clear instructions for use
* Safety measures
* Programming

- Maintenance manual with:

* Technical specifications
* Electrical design,
* Instructions for installation,
* Maintenance schedule with operations to be done and frequency.
* Instructions for first level maintenance and repair.
* Catalogue or list of accessories and its references.

1. **Installation and maintenance:**

The supplier must arrange for the equipment to be installed by certified or qualified personnel: any prerequisites for installation to be communicated to the purchaser in advance, in detail.

The company to also provide user training (including how to use and maintain the equipment) and a comprehensive maintenance plan.

**The cost of the maintenance plan to be defined and guaranteed over the period of warranty.**

The supplier must have competent staff, adequate infrastructure and sufficient spare parts to be able to respond to any complaints and to repair or replace the equipment.

**Standard maintenance tools:**

All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning material, to be included in the offer. Companies to specify the quantity of every item included in their offer.

**Spare parts**

Each equipment to be accompanied by an authorized list of accessories and spare parts.