

## **TECHNICAL SPECIFICATIONS-CLINICAL CHEMISTRY ANALYSER**

- 1- Fully automatic random access clinical chemistry analyzer.. Power supply 220 Volts+\_ 10% , 50 Hz (Single phase power supply in India).
- 2- Assay type- end point, kinetic, enzymatic, bichromatic, sample blank, reagent blank or more.
- 3- Throughput- 270 tests per hour or more.
- 4- Reagent & sample probe washing facility.
- 5- Reagent positions with on board refrigeration for reagents required for 24 or more biochemical parameters (considering two reagents for each biochemical parameter). Six or more open reagent positions(user defined programming) for use of third party reagents. Empty reagent bottles of suitable size, double the number of reagent positions to be supplied along with equipment.
- 6- Cuvette system: 70 or more cuvettes with on board temperature maintenance at 37 degree celcius plus minus 1%..
- 7- Detection of wavelenth range from 340 nm to 700 nm or beyond to cover all biochemical parameters.
- 8- Minimum sample volume of 2 microliter or less than that. Facility for automatic sample pre-dilution and test re-run.
- 9- Minimum reagent volume of 120 microliter or less than that for saving on reagents.
- 10- Facility for ordering test profiles.
- 11- Manual key board entry for patient data as well as in built Bar code scanner for identification of samples with facility for routine, stat and quality control samples as well as to accommodate primary and secondary tubes.
- 12- Windows based system with patient specific search option, facility for storage of 25,000 or more results and printing facility with external laser printer. Bidirectional interface with host computer. Easy access to current and past results with multiple print formats.
- 13- Facility for automatic calibration and quality control analysis.
- 14- 40 or more sample positions for patient, QC or calibrator samples. Should accommodate primary sample tubes.
- 15- Technical specifications must be supported by manufacturer's brochure failing which offer will be rejected.
- 16- Vendor must be able to demonstrate the equipment within specified time limit, if asked for; failing which offer will be rejected. During demonstration vendor has to achieve CV < 3% on 20 times repeat blood glucose testing(intra run assay) on same sample/control using GOD-POD or Hexokinase reagent of his choice.
- 17- Vendor must have a local service engineer at Hyderabad, ( at the time of submitting quotation, Address and name of service engineer must be mentioned in the technical specifications), for prompt after sales service.
- 18- Accessories to be supplied along with main equipment: (a)- A power backup facility(online UPS) of required capacity with thirty minute or more power backup.  
(b)- Compatible computer system(CPU), LCD Monitor, all necessary software, keyboard and mouse.  
(c)- 1.5 ton capacity split air conditioner of reputed make with suitable voltage stabilizer and on site installation.
- 19- Installation(erection and commissioning) and training to be provided by vendor free of cost.