

AUTO ANALYSER – 1No.**Doc. No: ST/12/Auto Analyzer/2016-17/06****APPLICATIONS:**

To study biochemical assays like hemoglobin, serum protein, albumin, creatinine, urea, glucose, alkaline phosphatase, triglycerides, cholesterol (HDL, LDL), calcium, glycosylated Hemoglobin, phosphorus, iron, zinc, copper, transferrin, ferritin, sodium, potassium. In human subjects with whole blood, haemolysate, CSF, human serum, plasma, and urine.

FEATURES

- Fully automated clinical chemistry auto analyzer with ISE option and it must be able to perform all the above parameters as given in applications
- The complete system should run on computer as well as standalone.
- Discrete and random access analytical system.
- Enzymatic rate, biochromatic, potentiometric type of analysis.
- Complete Automatic Sample/ reagent handling system, for pipetting, mixing etc., with Clot detection and correction facility.
- It must be an open system and suitable for reagents from other sources.
- Calibration : single point, end point, multipoint.
- About 100 reaction cuvettes with reusable plastic / quartz cuvettes with rinsing facility inbuilt.
- Calibration and quality control programs.
- Suitable inbuilt sample, reagent mixing technology.
- The system should have on-board peltier cooling facility.
- Suitable water purification unit for analysis.
- Facility for replacement of individual cuvettes.
- Facility for cuvettes rinsing and drying.

SPECIFICATIONS

1. No .of reagents: minimum 40 positions for reagents
2. Sample tray: Minimum 30 routine samples and provision for blanks, controls ,standards and IS
3. Sample volume: 2 to 50 micro liters increment of 0.2 micro liters.
4. Reagent dispensing volume: 25 to 300 micro liters increment of 0.2 micro liters.
5. Wavelength range: 300nm to 800 nm
6. Through put: minimum 100 tests / hour with ISE option.
7. User defined methods: Around 100 or above.
8. Absorbance range: 0.000 – 2.00 abs.
9. Reaction chamber temperature: $37^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$
10. Operating voltage: 230 V A.C / 50 HZ.

ESSENTIAL ITEMS TO BE SUPPLIED.

1. Latest configuration P.C., with L.C.D monitor, and laser color printer etc.
2. Suitable capacity U.P.S. system for equipment operation with one hour backup.
3. Required reagents for complete installation and testing of equipment to be supplied at free of cost.
4. Adequate reagents for analysis of around 1000 samples with appropriate quality control reagents.

TERMS & CONDITIONS

1. Supply of reagents, controls, and standards for assays for a period of 1 year from date of installation of equipment
2. Warranty required: 3years comprehensive + 2years non comprehensive including computer with printer, water purification system and UPS from date of installation.
3. Validation and calibration of the equipment to be carried out at the time of installation.