

TSN:133122

Approved Date:01.2013

Electrolyte Analyser

S.N.	Purchaser's Specifications
	Electrolyte Analyser
	Manufacturer
	Brand
	Type / Model
	Country of Origin
1	Description of Function
1.1	ISE electrolyte analyser (Na ⁺ , K ⁺ , Ca ⁺⁺ , Cl ⁻) for analysis of serum, plasma, urine, whole blood.
2	Operational Requirements
2.1	It shall be open system and based on ISE technology.
3	System Configuration
3.1	Electrolyte analyser with integrated printer and with complete accessories.
4	Technical Specifications
4.1	Microprocessor controlled electrolyte analyser with the measured parameter of Na ⁺ , K ⁺ , Ca ⁺⁺ and Cl ⁻ .
4.2	Sample volume shall be less than or equal to 100ul.
4.3	Analysing time-less than 60 seconds/test, sample throughout 50-60samples/hour.
4.4	Shall have fully automatic calibration of all parameters.
4.5	Maintenance free electrodes with long warranty. Bidder shall specify the warranty period.
4.6	Shall have data display on built in LCD display screen.
4.7	Shall have fully visible measuring chamber.
4.8	Standby mode facility user controlled and automatic for economical operations.
4.9	QC data, memory storage and calibration results.
4.10	Shall have automatic flagging of abnormal result.
4.11	It shall have only one reagent module for all standards and wash solutions and waste also shall be collected in the same module.
4.12	It shall have only one cleaning reagents for electrodes and daily maintenance.
4.13	Inbuilt thermal printer for printing patient data and facility to interface with computer an external printer.
4.14	It shall have a memory of at least 20 samples.
4.15	Shall supply reagent pack for 1000 tests with cleaning solution and one quality control solution and 3 set of printer paper roll.
5	Accessories, spares and consumables
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).
6	Operating Environment
6.1	The system offered shall be designed to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length.
6.3	Shall provide compatible servo voltage stabilizer and UPS of suitable rating with voltage regulation and spike protection for 30 minutes back-up.
7	Standards and Safety Requirements
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND
7.2	CE (EEC Directives) or USFDA approved product certificate.

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7.3	Shall meet IEC 61010-2-081 safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes.
8	User Training
8.1	Must provide user training (including how to use and maintain the equipment).
9	Warranty
9.1	Comprehensive warranty for 2 years after acceptance.
10	Maintenance Service During Warranty Period
10.1	During the warranty period supplier must ensure planned preventive maintenance (PPM) and corrective/breakdown maintenance whenever required.
11	Installation and Commissioning
11.1	The bidder 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.
12	Documentation
12.1	User (Operating) manual in English
12.2	Service (Technical / Maintenance) manual in English
12.3	List of important spare parts and accessories with their part number and costing.
12.4	Certificate of calibration and inspection from factory.