

Haematology Analyser

S.N.	Purchaser's Specifications	Bidder's Offer
	Automated Haematology Analyser (3 Parts Differential)	
	Manufacturer	
	Brand	
	Type / Model	
	Country of Origin	
1	Description of Function	
1.1	Automated haematology analyser or complete blood cell counter is used to count various types of blood cells in the blood.	
2	Operational Requirements	
2.1	Fully automated 3 parts differential haematology analyser.	
3	System Configuration	
3.1	Fully Automated Haematology Analyser, complete unit with all standard reagents, consumables and accessories.	
4	Technical Specifications	
4.1	Determination of 18 to 19 parameters, with 3-part differential, for routine haematology.	
4.2	Shall have fully automatic, open system.	
4.3	Sample volume: < 30ul.	
4.4	Throughput: approx. 50 samples per hour, 24h power on, with dormancy and wake function.	
4.5	Determination of: Red blood cell(RBC), White blood cell(WBC), Haemoglobin(HGB), Haematocrit(HCT), Mean cell volume(MCV), Mean cell haemoglobin(MCH), Red cell distribution(RDW-SD and RDW-CV), Platelets(PLT),Platelet distribution(PDW-SD and PDW-CV), Mean platelet volume(MPV), differential leucocytes (LYM, LYM%, MID, MID%, GRA, GRA%).	
4.6	Method: Photometry and impedance technology, cyanide-free colorimetry for haemoglobin counting.	
4.7	Calibration: independent automated calibration and manual calibration for minimum two test modes.	
4.8	Typical counting time: approximately 60 seconds for differential.	
4.9	Shall have with self-test capability.	
4.10	Display: LCD screen.	
4.11	Indication of self-test failures and assistance messages, sample ID, date and time are reported with test results.	
4.12	Supplied complete with dedicated data analysis and data management software.	
4.13	Results are reported on external laser printer.	
4.14	Shall have built-in RS232, USB2.0 or equivalent, for allowing data transfer and network capability via LIS.	
4.15	On board memory for about 50-100 tests records.	
4.16	Shall quote rates for reagents & consumables, calibrators & controls, printer paper, separately and it must be valid for at least 3 years.	
5	Accessories, spares and consumables	
5.1	Reagents & consumables, calibrators & controls, printer paper to be supplied for 200 samples.	
5.2	Shall provide compatible laser printer, 1 no.	
5.3	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication	



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	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 product offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.	
6.2	Power supply: 220-240VAC, 50Hz fitted with appropriate plug type D (3 pins). The power cable must be minimum 3 meters long.	
6.3	Suitable UPS with maintenance free batteries, voltage regulation and spike protection for minimum 30 min. back-up for the entire system including computer and printer shall be supplied with the system.	
7	Standards and Safety Requirements	
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices AND	
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.	
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 preventive maintenance and corrective/breakdown maintenance whenever required.	
11	Installation and Commissioning	
11.1	The bidder must arrange for the equipment to be installed and commissioned 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 numbers and costing.	
12.4	Certificate of calibration and inspection from factory.	

