

**Specification of Semi-Automated Haematology Analyser (3 Parts Differential)**

S.N	Parameters	Technical Specifications	Remarks
1	Usage	Automated haematology analyser is used to count various types of blood cells in the blood.	
2	System Configuration	Automated Haematology Analyser (3 part differential), complete unit with all standard reagents, consumables, accessories and UPS (1 KVA).	
3	Features	Determination of 18 to 19 parameters, with 3-part differential, for routine haematology.	
		Shall have fully automatic, open system.	
		Sample volume: < 30ul.	
		Throughput: minimum 50 tests per hour, 24 hour power on, with dormancy and wake function.	
		Determination of: Red blood cell (RBC), White blood cell (WBC), Haemoglobin (HGB), Haematocrit (HCT), Mean cell volume (MCV), Mean cell haemoglobin (MCH), Mean Cell Hemoglobin Concentration (MCHC), 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%).	
		Method: Photometry and impedance technology, cyanide-free colorimetry for haemoglobin counting.	
		Calibration: independent automated calibration and manual calibration for minimum two test modes.	
		Should have self-test capability.	
		Display: LCD screen.	
		Indication of self-test failures and assistance messages, sample ID, date and time should be printed with test results.	
Precision: Should have at least 3 QC level testing for each parameter.			
Shall have built-in RS232, USB2.0 or equivalent, for allowing data transfer and network capability via LIS.			
4	Accessories, spares and consumables	Reagents & consumables, calibrators & controls, printer paper to be supplied for 1000 samples.	
		Should provide compatible laser printer, 1 no. to print test reports	
		Should provide 1 KVA UPS with maintenance free battery	
		All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials should be included in their offer for free of cost	
5	Power Supply	220 VAC, 50 Hz	
6	Standard	Should submit ISO and CE approved product certificate at the time of bidding	
		Must provide user training on how to use the equipment	
		Supplier must ensure corrective/breakdown maintenance whenever required during warranty period.	
		Installation and demonstration should+C38 be done by suppliers	
		Should provide user manual in English	
		Should provide service manual in English	
		Should provide comprehensive warranty for 2 years or as provided by OEM whichever is greater after the date of installation including printer and UPS	

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7	Terms and Conditions	Date of manufacture should not be more than 2 years at the time of delivery	
		Should submit certificate of calibration and inspection at the time of delivery	
		Brand new	
		List of important spare parts and accessories with their part numbers and costing.	
		Certificate of calibration and inspection from factory.	
		Shall quote rates for reagents & consumables, calibrators & controls, printer paper, separately and it must be valid for at least 3 years.	

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