

Annex 1

EQUIPMENT: HAEMATOLOGY ANALYZER

Quantity = 2

GENERAL SPECIFICATION

- The Instrument should be a bench top model & Brand New.
- Should have Fully integrated GUI including LCD color touch screen.
- System should have sophisticated data management system.
- There should be various analysis modes: Standard/pre-diluted.
- Operating sample mode: Closed (or) Open.
- Minimum 25 parameters, CBC / DIF Analysis.
- Should have on-screen direction for analysis and troubleshooting.
- Should have sophisticated Reagent management system.
- All supplied reagents should have a minimum shelf life of 6 months.
- The system shall have an optional analysis for Body fluid, Low WBC, High WBC
- The instrument should have provision of storing logs of Service, Communication, QC, Reagents, Calibration, Blank cycle, Users, Setting.
- Flags & alarms expert system.
- **Connectivity:** RS232 and TCP/IP LIS interface, USB ports
- Should have a Bar-code reader (optional)

Measurement Principle

- WBC/DIFF: Fluorescence Flow Cytometry
- WBC: Flow Cytometry
- HGB: Cyanide-free SLS method
- RBC/PLT: DC Impedance method with hydrodynamic focusing.

Throughput

- CBC + DIFF: minimum of 50samples/hour
- Body fluid mode: up to 30 samples/hour (optional)

Sample Aspiration Volume

- 25 micro litter in WB

Quality Control Management

- 3 controls levels (low, normal, high)
- Target values download (USB)



Annex 2

RUNNING COST CALCULATION

EQUIPMENT: HEMATOLOGY ANALYZER

- Details of consumables, pack sizes & prices of consumables to be quoted as per the format below.
- If a particular consumable/reagent can be used for more than one parameter (or) test, the estimated number of test or frequency of consumption should be specified. Please refer to the table below.
- The Cost per Test should be calculated and provided.
Details of derivation/Calculation of Cost Per test should be provided separately. Any hidden costs like, Instrument rinsing, washing/disinfection, reagent consumption during Start-up and Shutdown, should be included in the Cost Per test calculation.
- Cost will be evaluated based on **unit cost per test** and the lowest cost per test proposed will be given the highest marks. Rest will be based on pro rata ratio.

List of Reagents

- Diluent
- Hemolyzing Reagents for CBC
- Hemolyzing Reagents for Differential
- Quality Controls (Low/Normal/High)
- Calibrator

Brand Name					
Proposed Model					
Distributor Name					
S. No	Name of reagent/consumables	Price (MVR)	Pack size Volume(ml/L)	Reagent Consumption/Test	Cost/Test w GST
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					



VOLUME OF REAGENT USED ON INSTRUMENT STARTUP

S. No	Details of Reagent	Consumption(ml/ μ l)	Cost/cycle (MVR)

VOLUME OF REAGENT USED FOR RINSING

S. No	Details of Reagent	Consumption(ml/ μ l)	Cost/cycle (MVR)



VOLUME OF REAGENT USED ON SHUTDOWN PROCESS

S. No	Details of Reagent	Consumption(ml/μl)	Cost/cycle (MVR)

Note: Please specify the frequency of rinsing in 24 hours.



Annex 3

SUPPLIER RESPONSIBILITIES

- The Bidder shall ensure Installation & Commissioning, Supervision and Demonstration of the goods.
- The Bidder shall maintain the Automated Hematology Analyzer for a period of five years; any cost of maintenance within the stipulated time will be borne by the successful Bidder. It must also include a scheduled Planned Preventive Maintenance program, and corrective maintenance as needed. During the comprehensive warranty period, the guaranteed uptime of 95% of 365 days (working hours of 24 hours per day) will be ensured. If the Breakdown period exceeds, the successful tenderer must bear the loss incurred to the GRH.
- The supplier shall deliver the necessary consumables and reagents related to the analyzer according to the GRH requirement within 45 days upon request (Purchase Order) and ensure constant supply of these as per the regular usage of GRH at all times, without any delay.
- The supplier shall attend to service calls within 2 hours from reporting & shall coordinate with in- house engineers in resolving the issue immediately. If a problem is not resolved within 6 hours, the supplier shall arrange to send an engineer/application specialist or technician who is most appropriate to attend the situation.
- The In-House engineers in GRH has to be trained for basic troubleshooting on Application /Breakdown calls at the time of installation.
- If equipment cannot be repaired on site and is needed to be transported to a workshop at another site, the supplier shall ensure a backup machine or equipment is kept before the equipment relocation is approved.
- Without any justifiable reason the services shall not be interrupted. Where there is a service interruption for any reason, a time plan for restoring the services shall be communicated with GRH.
- Within one year of installation the supplier shall train GRH engineers and staff on both technical and application training.
- The supplier should keep the basic/essential spare parts at the site or at the supplier's warehouse for emergency shipment.
- The supplier shall also provide key operator training to GRH staff and also conduct refresher training for the user periodically.
- The Life period of any of the Reagents / consumables supplied by the successful Bidder will have a Minimum of two third of the expiry period remaining on the date of receipts of

items in GRH. The supplied items having less than two-third expiry period to GRH shall not be accepted. Loss or premature deterioration due to biological and/or other Factors during life span of Stores against the manufacture's standard warranty/ Expiry of such items shall be replaced by the Bidder on free of cost.

- All hidden costs of the test should be highlighted in the financial bid.

Consumables & Reagents:

- a. Consumables as may be required for installation, commissioning, start up and trial runs shall be supplied by the supplier with the equipment without any extra charges.
- b. The price list of such consumables which shall be required for running of the equipment thereafter shall be submitted with validity for the period of 1 year warranty and 4 years thereafter.

Liquidated damages:

In the event of failure to supply within the stipulated delivery period, the purchaser reserves the right to levy liquidated damages @ 2% per month or part thereof for the delayed supplies.

Periodicity/ Duration of Tender:

Periodicity / Duration of Tender will be for 3 years from date of finalization, and extendable up to 2 years with satisfactory performance evaluated yearly from the mutual agreeable terms and conditions.

Maintenance:

Preventative Maintenance Schedule within 30 Days from the Effective Date, the parties shall agree on the details of the schedule for preventative maintenance services to be provided by the Supplier during the contract Period.

GRH Responsibilities

- GRH shall provide a place to install the equipment.
- To conduct awareness among GRH staff on equipment use and functions.
- To ensure users are operating equipment as per manufacturers recommendations and advice.



- To prepare and share with supplier GRH requirements (consumables /reagents) required to provide services.
- GRH will only purchase machine related consumables exclusively from the supplier.
- GRH can decide to change the location of the machine within GRH or to any other health facility under GRH.

ESTIMATED TEST PER YEAR

Sr. No	Description/Test Name	Tentative Annual Number of Test
1	CBC	1380

Note: This is an estimated number which can either increase or decrease based on patient volume.

