

Annex 1

EQUIPMENT: **CLINICAL CHEMISTRY ANALYZER**

Quantity = 2

GENERAL SPECIFICATION

- The analyzer should be a compact benchtop, fully/semi-automated clinical chemistry analyzer. should be based on dry (or) wet chemistry technology for accurate measurement of parameters such Electrolytes, Enzymes, General chemistry.
- The structure of the machine should be of modular design and brand new.
- Should have Fully integrated GUI including LCD color touch screen.
- The system should have a sophisticated data management system.
- There should be various analysis modes: Standard/pre-diluted.
- Should have an optional Barcode Reader and Printer.
- Should perform 20 tests per sample at a given time.
- Should perform 20 tests with one single instrument module.
- Should have the following features, Auto dilution, Onscreen user instructions, Autocalibration.

PRODUCT SPECIFICATION		REMARK
Minimum Number of Test	Colorimetry 28 tests Electrolytes 3 tests	
Throughput	Colorimetry 120 test/hour Combined 128 test/hour	
Measurement Time	Colorimetry 2 to 6 minutes/test Electrolytes 1 minute/3 tests (Na-K-Cl)	
Type of sample	Plasma, Serum, Whole blood	
Sample Volume	Colorimetry 10µL/test, Electrolytes 50µL/3 tests (Na-K-Cl), CRP 5µL/test	



Required Accessories and Consumables

- Mixing cups
- Tips for sample & Reagent aspiration.
- Should provide Online UPS- one hour battery backup.
- Barcode Reader.

Power Supply Requirement

- Power input to be 220-240 VAC, 50Hz fitted with UK Plug.

Standards and Requirements:

- USFDA, CE and/or ISO certifications or relevant standards certification. (The document must be submitted)

Documentation

- Certificate of calibration and inspection.
- Detailed service manual and operation manual should be provided by the supplier or manufacturer.
- An original catalogue with detailed literature should be provided.
- Should provide Training to End Users.
- The Authorization letter must be submitted.



Annex 2

RUNNING COST CALCULATION

EQUIPMENT: CLINICAL CHEMISTRY ANALYZER

- Details of Reagents, consumables, pack sizes & prices shall be quoted as per the format below (table:2)
- 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 (1) 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 items

- Reagents of Proposed Tests.
- Consumables
- Calibrators
- Quality Controls

Brand Name				
Proposed Model				
Distributor Name				
S. No	Description of QC/Calibrator	Price (MVR)	Pack size	Consumption of Reagents, Qc's Calibrator /Cycle
1				
2				
3				
4				
5				
6				

Table 1



S No	Name of Test	Tentative Annual Requirement	Pack Size of the Reagent	Cost of Reagents Pack size	No. of Test / Pack	Cost per test (Including Cleaner, Washer, Diluent, Kits, Controls, Calibrator, Qcs, Tips, required any other consumables etc.)	Net Cost Per test (Including GST)
1	Albumin	720					
2	ALT	720					
3	AST	720					
4	ALKP	720					
5	Direct Bilirubin	720					
6	Total Bilirubin	720					
7	Total Protein	720					
8	GGT	720					
9	BUN	660					
10	Creatinine	660					
11	Uric acid	660					
12	Total Cholesterol	420					
13	Triglyceride	420					
14	HDL Cholesterol	420					
15	Calcium	180					



16	Phosphorus	180					
17	Na/K/Cl	600					
18	Glucose	600					
19	Amylase	60					
20	Magnesium	120					
21	CK	85					
22	CKMB	85					
23	LDH	120					
24	CRP	480					
						Total Cost	

Table 2



Annex 3

SUPPLIER RESPONSIBILITIES

- The Bidder shall ensure Installation & Commissioning, Supervision and Demonstration of the goods.
- The Bidder shall maintain the clinical chemistry analyzer for a period of three 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 the 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 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 trainings for the user periodically.



- All hidden cost of the test should be highlighted in the financial bid.
- The Life period of any of the Reagents / consumables supplied by the successful Bidder will have the 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.

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 as per the public finance act.

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 Requirement
1	Albumin	720
2	ALT	720
3	AST	720
4	ALKP	720
5	Direct Bilirubin	720
6	Total Bilirubin	720
7	Total Protein	720
8	GGT	720
9	BUN	660
10	Creatinine	660
11	Uric acid	660
12	Total Cholesterol	420
13	Triglyceride	420
14	HDL Cholesterol	420
15	Calcium	180
16	Phosphorus	180
17	Na/K/Cl	600
18	Glucose	600
19	Amylase	60
20	Magnesium	120
21	CK	85
22	CKMB	85
23	LDH	120
24	CRP	480

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

