

**TENDER LIST FOR THE BULK PURCHASE OF LAB ITEMS FOR THE TENDER YEAR OF
2022 -2023 (FOR SFMKB IC D.G Khan)**

1. BIO-CHEMISTRY SECTION

**A. FULLY AUTO Matic RANDOM ACCESS CHEMISTRY ANALYSER (ON
REAGENT RENTAL BASIS**

DETAILED REQUIREMENTS :

Microprocessor controlled fully automated chemistry analyzer User programmable with
built in bar code reader.(Reagent & Sample)

Sample type: Serum, Plasma, Body Fluids etc.

Capability to re-run with automatic on board sample dilution.

RS 232 interface or USB for on line computer 220V, 50 Hz Operated

USER ADJUSTABLE SETTINGS:

Minimum 40 reagent position including special proteins and Drugs parameters

Minimum 100 sample/QC positions and continuous loading of samples

150 tests/hr or above for a range of chemistries(Other than ISE i.e. Na + , K + , Cl –) &

120 test /hr for ISE i.e. Na + , K + , Cl –

Sample volume 2-100 µl

DISPLAYED PARAMETERS:

On board reagent refrigeration of 2-8 Degree Centigrade/ On board reagent refrigeration
compatible with the kits.

Temperature control for assays at 37C

Reaction volume range from 120ul to 300ul

Water consumption less than 3L/hr.

Self-calibrating against known standards + Storage of QC results

Automatic flagging of results outside user defined limits Data entry by keyboard, bar code
reader& LIS

Automatic clot detection

sample level detector/Liquid Level Sensing on both Reagent and Sample Probe

Minimum data storage 10,000 tests

ACCESSORIES:

With Built-in Thermal Printer or External Laser Printer

Compatible Imported Online Sine wave UPS with Battery backup for 30 minutes

(Emerson, Liebert, Chloride, MGE, APC or Equivalent)

Compatible Computer system with Large LCD & Keyboard/Mouse

Two Glass door Refrigerators provided with analyser to reagents storage

All consumable /disposable with control and calibrators to be provided with test.

No.	Test Name	Number Of Tests For Fully Automation	Number Of Tests For Semi Automation
1	SGPT	60000	4000
2	ALKALINE PHOSPHATE	60000	2000
3	BILLIRUBIN	60000	2000
4	AST	60000	2000
5	CHOLESTEROL	20000	2000
6	TRIGLYCERIDE	20000	2000
7	HDL	20000	
8	LDL	20000	
9	URIC ACID	30000	2500
10	CREATININE	80000	6000
11	UREA	80000	6000
12	GLUCOSE	120000	10000
13	ALBUMIN	1000	100
14	TOTAL PROTEIN	6000	600
15	LIPASE	2000	
16	CALCIUM	20000	1500
17	AMYLASE	4000	
18	CK-MB	3000	
19	LDH	2000	
20	IRON	5000	
21	C-PEPTIDE LEVEL	2000	
22	MAGNESIUM	6000	600
23	CPK	2000	

	QUALITY CONTROL NORMAL (WITH SAME LOT WITH SAME EXPIRY DATE ON EACH SUPPLY)	20Packs	
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B. LATEST /UPGRADED AUTOMATED HARMONE ANALYZER

DETAILED REQUIREMENTS.

Fully Automated Latest Hormone Analyzer (Chemilumilescence) on Reagent/rental basis with UPS backup, printer, Computer system, Glass door Referigeratorr and all accessories, controls and calibrators. (Japan, USA, Europe, UK,Turkey&Singapur). FDA/CE Marked.

<u>NO</u>	<u>TEST NAME</u>	<u>NUMBER OF TEST</u>
<u>1</u>	<u>Free T3</u>	<u>5000</u>
<u>2</u>	<u>Free T4</u>	<u>5000</u>
<u>3</u>	<u>TSH</u>	<u>5000</u>
<u>4</u>	<u>LH</u>	<u>2000</u>
<u>5</u>	<u>PROLACTIN</u>	<u>1000</u>
<u>6</u>	<u>BETA HCG</u>	<u>500</u>
<u>7</u>	<u>TESTOSTERON LEVEL</u>	<u>2000</u>
<u>8</u>	<u>CA-125</u>	<u>1000</u>
<u>9</u>	<u>AFP</u>	<u>1000</u>
<u>10</u>	<u>FERRITTEN</u>	<u>5000</u>
<u>11</u>	<u>VITAMIN D</u>	<u>10000</u>
<u>12</u>	<u>FSH</u>	<u>2000</u>
<u>13</u>	<u>PSA</u>	<u>2000</u>
<u>14</u>	<u>PROGESTERON</u>	<u>1000</u>
<u>15</u>	<u>TISSUE TRANSGLUTAMINASE IgG</u>	<u>500</u>
<u>16</u>	<u>TISSUE TRANSGLUTAMINASE IgM</u>	<u>500</u>
<u>17</u>	<u>CEA</u>	<u>500</u>
<u>18</u>	<u>Pro BNP</u>	<u>500</u>
<u>19</u>	<u>INSULINE</u>	<u>1000</u>
<u>20</u>	<u>ANTI CCP</u>	<u>500</u>

C. ELECTROLYTE ANALYSER (HUMALYTE PLUS 3 OR EQUIVLANT)

<u>NO</u>	<u>PRODUCT</u>	<u>NUMBER OF PACK</u>
<u>1</u>	<u>ELECTROLYTE CELL PACK</u>	<u>120</u>
<u>2</u>	<u>DAILY CLEANING SOLUTION</u>	<u>20</u>
<u>3</u>	<u>WEEKLY CLEANING SOLUTION</u>	<u>10</u>

NOTE. WINNER WILL PROVIDE ONE ELECTROLYTE ANALYSER AS BACKUP.

E. ELISA SYSTEM (ON REAGENT RENTAL BASIS)

Band New Fully automated ELISA System with UPS , Printer and all Aecessories

(Japan, USA, Europe, UK,Turkey&Singapur) . All Consumeable / Disposable to be provided with test.

<u>NO</u>	<u>PRODUCT</u>	<u>NUMBER OF TESTS</u>
<u>1</u>	<u>HBSAG ELISA</u>	<u>1500</u>
<u>2</u>	<u>ANTI ELISA</u>	<u>1500</u>
<u>3</u>	<u>HIV ELISA</u>	<u>1000</u>

D. REAL TIME PCR SYSTEM (To be Placed on Reagent Rental Basis)

DETAILED REQUIREMENTS:

Open Programmable system, supplier will program quoted real time PCR kits.

Color touch screen built-in (operating screen) with touch pen.

Capacity 32 wells (16x 2 Separate Blocks), Eachblock can be operated for different assays.

Use of simple 0.2ml PCR tubes, no complicated or specific expensive PCR tube requirement.

Reaction Volume 10 – 100 ul. Light Source: LED, Detector: High Sensitivity Photoelectric detector

Temp. Uniformity: $\pm 0.25^{\circ}\text{C}$, Temp. Accuracy: $\pm 0.25^{\circ}\text{C}$, Hot Lid Temp. Range: 30 - 110 $^{\circ}\text{C}$.

Multiplexing (Detection Channels): 4 Detection Channels (FAM/SYBR Green, HEX/VIC/JOE/TET ROX/TEXAS-RED, Cy5/ CY5.5/ LC RE)

System must be CE IVD Approved

Manufacturer must have ISO 13485 (Medical Devices Quality Management System) certificate.

System must be approved by Medical Device Authority of manufacturing country.

System must have Free Sale Certificate for Pakistan by Medical Device Authority of manufacturing country.

Kits / Consumables Description

1. Viral Nucleic Acid Extraction kit

Spin Column based extraction method

Preferred Pack Size 100 / 300 Preps

Only Combo kits to be quoted for viral RNA and DNA extraction from serum/ plasma samples.

Carrier RNA & Proteinase K included

Tested sample types: Blood, serum, plasma (fresh or frozen biological specimen)

Kit must be CE IVD Approved

Manufacturer must have ISO 13485 (Medical Devices Quality Management System) certificate.

Kit must be approved by Medical Device Authority of manufacturing country.

Kit must have Free Sale Certificate for Pakistan by Med. Device Authority of manufacturing country. Notification of Export only Medical Device to be submitted issued by Medical Device Authority of manufacturing country.

2. HCV Real Time PCR Amplification kit

Compatible for all Real Time PCR System.

Preferred Pack Size 48 Tests

Ready to use reagent for Quantitative testing of HCV.

A panel of four calibrators for viral load quantification Provided with kits

Internal Control must be endogenous (mRNA of the constitutive GAPDH gene) to monitor the entire procedure.

Manufacturer must have ISO 13485 (Medical Devices Quality Management System) certificate.

Kit must be CE IVD Approved. Kit must have Free Sale Certificate for Pakistan by Medical Device Authority of manufacturing country.

3. HBV Real Time PCR Amplification kit

Compatible for all Real Time PCR System.

Preferred Pack Size 48 Tests

Ready to use reagent for Quantitative testing of HBV.

A panel of four calibrators for viral load quantification Provided with kits

Internal Control must be endogenous (mRNA of the constitutive GAPDH gene) to monitor the entire procedure.

Manufacturer must have ISO 13485 (Medical Devices Quality Management System) certificate.

Kit must be CE IVD Approved, Kit must have Free Sale Certificate for Pakistan by Medical Device Authority of manufacturing country.

4. HDV Real Time PCR Amplification kit

Compatible for all Real Time PCR System.

Preferred Pack Size 48 / 100 Tests

Ready to use reagent for Qualitative testing of HDV.

A panel of four calibrators for viral load quantification Provided with kits

Internal Control must be endogenous (mRNA of the constitutive GAPDH gene) to monitor the entire procedure.

Manufacturer must have ISO 13485 (Medical Devices Quality Management System) certificate.

Kit must be CE IVD Approved, Kit must have Free Sale Certificate for Pakistan by Medical Device Authority of manufacturing country.

No.	ITEMS	Quantity
1	Viral Nucleic Acid Extraction kit	16000
2	HCV Real Time PCR Amplification kit	6000
3	HBV Real Time PCR Amplification kit	6000
4	HDV Real Time PCR Amplification kit	3000
5	0.2 ml PCR tubes (1000 / Pack)	20 packs
6	10 ul Filter Tips	30000 Tips
7	100 ul Filter Tips	20000 Tips
8	1000 ul Filter Tips	50000 Tips
9	2 ml Serum Cups (Round Bottom) (500 / Pack)	200 Packs
10	Powder Free Gloves (M/L)	150 packs
11	Pure Ethanol (2.5 L)	50 Bottles

2. HAEMATOLGY SECTION

A. HAEMATOLOGY ANALYSER.

DETAILED REQUIREMENTS:

Automated Hematology Counter

Auto probe cleaning/wiping

Through put minimum 60 samples/hour or more

3-Part differential with minimum 21 parameters with Histograms for WBC, RBC and Platelet

Analyzer must be able to directly measurement of WBC more than 300,00 per ul

Sample Volume: Max 10 - 15 ul of whole blood or less

Auto-Pre Dilution Mode with results

Digital LCD Touch Screen display

Auto calibration

Patient data entry and specimen recognition by keyboard/LCD Touch Screen/Bar Code

Patient data and results storage of minimum 100,000 Results or more

Must be Built-in Thermal Printer

Consumables, Paper Roll. reagents, calibrators, controls for start up

Provide per test cost and reagent consumption schedule

Country of Origin: USA, Europe, Turkey, Singapore, & Japan

WINNER WILL PROVIDE TWO HAEMATOLOGY ANALYSERS.with Compatible Imported Online Sine wave UPS with Battery backup for 30 minutes (Emerson, Liebert, Chloride, MGE, APC or Equivalent) , Paper Roll etc

No.	ITEM Name	Quantity
1	Diluent 20 Litre	250
2	Cleaner	100
3	LYSE	120
4	QUALITY CONTROL LOW	12
5	QUALITY CONTROL NORMAL	12
6	QUALITY CONTROL HIGH	12

NOTE : AUTHORITY WILL NOT ACCEPT THE CONSIGNMENT WITH OUT ABOVE MENTIONED TWO HAEMATOLOGY ANALYSERS.

B. COAGULATION ANALYSER (ON REAGENT RENTAL BASIS).

Latest Brand New Fully Automated Coagulation Analyser (On Reagent Rental Basis) with Printer, Controls , Caliberators , Paper Roll to be provided with test.

No	TEST NAME	Number Of Tests
1	PT	35000
2	APTT	35000
3	D-Dimmer	15000
4	Fibrinogen	10000

2. SEROLOGY SECTION

No	ITEM NAME	Quantity OF TESTS
1	HBSAG	180000
2	ANTI HCV	180000
3	H-PYLORI	60000
4	ICT MP	150000
5	TYPHOID	20000
6	VDRL	150000
7	PREGNANCY	5000
8	ASO TITRE	50 PACKS
9	RA FACTOR	50 PACKS
10	ANF	10 PACKS
11	HIV	180000
12	HBEAG	500

13	ICT TB	3000
14	C REACTIVE PROTEIN	3000

4. Misc. ITEMS

No.	ITEMS	QUANTITY
1	TEST TUBE PLASTIC	300000
2	YELLOW TIPS	250 BAGS
3	BLUE TIPS	250 BAGS
4	COMBER 10 URINE STRIPS	1000 BOXES
5	SLIDES	20 BAGS
6	URINE CONTAINER	60000
7	GLOVES	2500 PACKS
8	NEEDLE CUTTER	100
9	TEST TUBE RACK	30
10	GLASS TUBE	20000
11	DISTILLED WATER 5 LITRE PACK	1000 PACKS
12	ADJUSTABLE PIPPETS	30
13	ESR FAST DETECTOR IN 30 MINUTES	20
14	ESR TUBES FOR FAST DETECTOR	11000