

# SHEIKH ZAYED HOSPITAL, RAHIM YAR KHAN

## TENDER LIST OF LABORATORY KITS, CHEMICALS, REAGENTS AND MISCELLANEOUS ITEMS FOR FINANCIAL YEAR 2022-23

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
<b>Microbiology Section:</b>						
1	CLED Agar	1x500 gm	8500	3 Packs	25500	510
2	HBsAg ICT (WHO Recommended)	1x1 No	29.9	155600 Nos	4652440	93048.8
3	Anti HCV ICT(WHO Recommended)	1x1 No	45	155600 Nos	7002000	140040
4	HbeAg (ICT)	1x1 T	45	120 Tests	5400	108
5	Hepatitis E virus (ICT)	1x1 T	200	120 Tests	24000	480
6	Hepatitis A Virus (ICT)	1x1 T	180	100 Tests	18000	360
7	HIV ICT (WHO Recommended)	1x1 No	79	63000 Nos	4977000	99540
8	Syphilis VDRL (ICT)	1x1 No	25.43	240 Tests	6103	122.064
9	Field Stain A	1x1000 ml	7640	2 Bottle	15280	305.6
10	Field Stain B	1x1000 ml	7640	2 Bottle	15280	305.6
11	Pregnancy Strips	1x1 T	5	4000 Nos	20000	400
12	R.A. Factor Kit	1x100 T	12.5	30 Kits	375	7.5
13	ASO Titre Kit	1x100 T	4897.85	6 Kits	29387	587.742
14	Dengue IgG, IgM ICT	1x1 T	125	240 Nos	30000	600
15	Dengue NS1 (ICT)	1x1 T	160	240 Nos	38400	768
16	Dengue NS1 (ELISA)	1x96 T	23650	2 Kits (96 T Kit)	47300	946
17	Dengue IgM (ELISA)	1x96 T	43245	1 Kits (96 T Kit)	43245	864.9
18	Dengue IgG (ELISA)	1x96 T	43245	1 Kits (96 T Kit)	43245	864.9
19	Anti HDV ELISA Kit	1x96 T	36000	1 Kit	36000	720
20	Toxoplasmosis ELISA Kit	1x96 Tests	33150	1 Kit	33150	663
21	,Rubella ELISA Kit	1x96 Tests	73125	1 Kit	73125	1462.5
22	Cytomegalovirus ELISA Kit	1x96 Tests	74750	1 Kit	74750	1495
23	Herpes simples ELISA Kit	1x96 Tests	89375	1 Kit	89375	1787.5
24	H. Pylori Stool Antigen (HpSA)	1x1 T	110	120 Tests	13200	264
25	TPHA for syphilis	1x1 T	400	120 Tests	48000	960
26	C. Reactive Protein (CRP) Reagent Kit	1x100 T	41.16	6 Kits	247	4.9392
27	Urine Strips 3 Parameters	1x100 T	274	250 Packs	68500	1370
28	Urine Strips 10 Parameters	1x100 T.	699	70 Packs	48930	978.6

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
29	Disposable Urine Container 60 ml	1x100 Nos	5.5	41000 Nos	225500	4510
30	Z.N. Stain Set	3x500 ml	24800	1 Set	24800	496
31	Gram Stain Set	4x500 ml	32000	3 Set	96000	1920
32	Culture Swab Sticks (Sterilized)	1x100 No	1000	120 Packs	120000	2400
33	MacConKey's Agar	1x500 gm	9500	4 Packs	38000	760
34	Disposable Petridishes	1x100 Pair	12	7000 Nos	84000	1680
35	Blood Culture Bottles (Prepared-Adult)	1x1 T	54	360 Nos	19440	388.8
36	Blood Culture Bottles (Prepared-Paed's)	1x1 T	52	360 Nos	18720	374.4
37	Mueller Hinton Agar	1x500 gm	8100	3 Pack	24300	486
38	Conical Flask (500 ml)	1x1 No	550	4 Nos	2200	44
39	Conical Flask (1000 ml)	1x1 No	680	4 Nos	2720	54.4
40	Glass Slides	1x72 Nos.	121	130 Packs	15730	314.6
41	Cover Slips (18x18 mm)	1x200 Nos	94	70 Packs	6580	131.6
42	ANA Kit	1x50 T	84.62	250 Tests	21155	423.1
43	VTM Vials	1x1 No	163	5000 Nos.	815000	16300
44	Blood Capillary Tubes 75mm (Na-heparinized) Germany	1x100 No.	230	210 Packs	48300	966

#### **ELISA Automated (Purchased)**

45	HIV ELISA Kit	1x96 T	9596	24 Kits	230304	4606.08
46	HBV ELISA Kit	1x96 T	9795	36 Kits	352620	7052.4
47	Anti HCV ELISA Kit	1x96 T	11650	40 Kits	466000	9320

**Two Fully Automated Latest Immunoassay Analyzer (Chemiluminescence) on Reagent/rental basis with UPS backup, printer, Computer system, AC 2 ton and all accessories, controls and calibrators. (Japan, USA, Europe, UK, Turkey & Singapur). FDA/CE Marked. (Haematology & Microbiology Sections)**

48	HBs Ag. (ELISA) Kit with consumable accessories	1x100 T	14700	900 Kits	13230000	264600
49	Anti HCV (ELISA) Kit with consumable accessories	1x100 T	25450	900 Kits	22905000	458100
50	HIV (ELISA) Kit with consumable accessories	1x100 T	14700	300 Kits	4410000	88200
51	Syphilis ELISA Kit with consumable accessories	1x100 T	14700	51 Kit	749700	14994

**Latest, Brand New Automated Blood Culture System and Automated ID/AST System on Reagent Rental Basis with Accessories i.e Refrigerator, AC 2 ton, UPS (USA, Europe, Japan)**

52	Latest, Brand New Automated Blood Culture System on Reagent Rental Basis (Paeds) PF PLUS (AEROBIC)	1x100 Bottles	540	2000 Tests	1080000	21600
53	Latest, Brand New Automated Blood Culture System on Reagent Rental Basis (Adults) FA PLUS (AEROBIC)	1x100 Bottles	540	2000 Tests	1080000	21600
54	Identification Cards	1x20 Cards	650	2000 Nos	1300000	26000
55	Sensitivity Cards	1x20 Cards	650	2000 Nos	1300000	26000

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
<b>Miscellaneous Items</b>						
56	Antibiotic Sensitivity Discs (50 discs/vial) (Manual)	1x50 Nos	402.5	300 Packs	120750	2415
57	Occult Blood Strips (Stool)	1x100 Nos	2500	1 Pack	2500	50
58	Automated ELISA System Tips (300 ul) (Evolis Twin Plus)	1x1 Nos	9	6000 Nos	54000	1080
59	Automated ELISA System Tips (1100 ul) (Evolis Twin Plus)	1x1 Nos	13	1000 Nos	13000	260
60	Benedict's Solution (Reducing Substance)		300	1 Bottle	300	6
61	Neubar Chamber (Imported, Germany)	1x1 No	3500	10 Nos	35000	700
62	Wire Loop for Culture (Nichrome or Platinum)	1x1 No	4000	20 Nos	80000	1600
63	Wire Loop Holder	1x1 No	149	10 Nos	1490	29.8
64	Spirit Lamp (Glass)	1x1 No	270	10 Nos	2700	54
65	Rapid One System (for identification of enterobacteriaceae)	1X20 Tests	29500	10 Packs	295000	5900
66	Hitachi cups (ELISA)	1x1 Tests	1.59	10000 Nos	15900	318
67	Sample Cups (2ml)	1x1000 Nos	3140	80 Pack	251200	5024
68	Disposable Urine Container Sterilized for urine culture	1x1 Tests	6.99	2000 Nos	13980	279.6
69	Blood Ager	1x500 gm	9545	3 Packs	28635	572.7
70	Oxidase reagent (Powder)	1x5 gm	15970	2 Packs	31940	638.8
71	Oxidase Strips	1x50 Nos	8305	4 Packs	33220	664.4
<b><i>RT PCR Kits along with fully Automated Neuclic Acid Extractor:</i></b>						
<b><i>Fully Automated extractor throughput &gt; 32 smaples/Run Operation Time &lt;30 Minutes Sample Volume 100-400 ul on Reagent Rental Basis.</i></b>						
72	HBV RTPCR Quantitative Kit	48 T	47472	15 Kits	712080	14241.6
73	HCV RTPCR Quantitative Kit	48 T	47472	60 Kits	2848320	56966.4
74	Nucleic acid Extraction Kit with extractor	1x96 T	22464	40 Kits	898560	17971.2
<b><i>Consumables for PCR System:</i></b>						
75	Powder free Gloves	1x50 Pairs	1400	120 Boxes	168000	3360
76	Disposable filter tips 100 µl	10x96 Tips	6153	18 Packs	110754	2215.08
77	Disposable filter tips 200 µl	10x96 Tips	6153	18 Packs	110754	2215.08
78	Disposable filter tips 1000 µl	10x96 Tips	6350	18 Packs	114300	2286

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
79	Sample Cups (Eppendorf cup 1.5 ml RNA DNA free) (Sterilized for PCR)	1x500 No	1650	120 Packs	198000	3960
80	PCR reaction Tube 0.2 ml (specific for SaCycler), 1x8 Strips with Caps	1x960 Wells	755	12 Packs	9060	181.2
81	Pure Ethonal	2.5 Ltr	3725	10 Bottles	37250	745
82	Micropipette fix 10 ul	1 No	8900	4 Nos	35600	712
83	Micropipettes adjustable imported (0.5-10 ul)	1x1 No	8900	4 Nos	35600	712
84	Micropipettes adjustable imported (10-100 ul)	1x1 No	8900	6 Nos	53400	1068
85	Micropipette (Adjustable) 05-50µl	1 No	8900	4 Nos	35600	712
86	Micropipette (Adjustable) 20-200µl	1 No	8900	4 Nos	35600	712
87	Micropipette (Adjustable) 100-1000µl	1 No	8900	6 Nos	53400	1068

**Latest Brand New fully Automated PCR System with Extraction, Master Mix Prepration & Amplification with all Consumables, Controls, Calibrations and Standards for Real Time PCR with throughput 96 Tests / 6 hour, Sensitivity < 15 IU / ml, with UPS, 1.5 ton AC & -20 Refrigerator on Reagent Rental Basis compatible for LIS connectivity (FDA, CE / IVD Approved). (USA, EUROPE, JAPAN, TURKEY)**

88	HBV RTPCR Quantitative Kit	48 T	47472	57 Kits	2705904	54118.08
89	HCV RTPCR Quantitative Kit	48 T	47472	252 Kits	11962944	239258.88
90	Nucleic acid Extraction Kit with extractor	1x96 T	22464	152 Kits	3414528	68290.56

### **Haematology Section:**

**05 Latest Fully Automated 3-Part Haematology Analyzer on Reagent Rental Basis with UPS, Printer & Roller Mixer, AC 2 ton, Degital Cell Counter along with all accessories (Japan,USA,Europe, UK, Turkey & Singapur). FDA/CE Marked.**

91	Complete Cell Packs along with all reagents required for 3-Part Haematology Analyzer for complete Blood Count (CBC)	Diluent Stromatolyser / 20Ltr Lysing Solution 1 Ltr Cleaner / Cleaning 1 Ltr Solution	7350	160 Diluent (1X20Ltr)	1176000	23520
			6450	100 Lyse solution (1X1Ltr)	645000	12900
			4725	180 Cleaner/cleaning solution (1X1Ltr) Reagent required for Estimated workload 200000 Cycles ( Pack size & quantity may vary in compatible with the quoted insturment for 200000 cycles)	850500	17010
92	Thermal Paper (Haem.Analyzer)	1x1 No	120	120 Nos	14400	288
93	Quality Control Haematology Analyzer 3-Part, Low (FOC)	1 Set	0	12 Sets	0	0
94	Quality Control Haematology Analyzer 3-Part, Normal (FOC)	1 Set	0	12 Sets	0	0
95	Quality Control Haematology Analyzer 3 Part, High (FOC)	1 Set	0	12 Sets	0	0

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
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**Reagents of Haematology 3-Part Analyzer (Medonic M-series) (Purchased Instrument)**

96	Cell Pack for Medonic with control and calibrator	1 Pack	30500	2 Packs	61000	1220
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**Latest Fully Automated Haematology Analyzer 5-Part on Reagent Rental Basis with Printer, UPS, Roller Mixer, AC2 ton, Digital Cell Counter along with all accessories (Japan, USA, Europe, UK, Turkey & Singapore). FDA/CE Marked**

97	Complete Cell Packs along with all reagents required for Haematology Analyzer 5-Parts	Diluent 20Ltr	15100	135 Diluent (1x20Ltr)	2038500	40770
		Diff. Lyse 500 ml	10200	95 Diff Lyse/Lysing Solution (1x500ml)	969000	19380
		Lyseing Solution 200 ml	19900	76 CBC/LH Lyse/Lysing Solution (1x200ml) <b>Reagent required for Estimated workload 50000 Cycles</b> ( Pack size & quantity may vary in compatible with NOS	1512400	30248
98	Cleaner/Cleaning Solution	1 x 50 ml	0	30 (1x50ml) (Packing size compatible with	0	0
99	Quality Control Haematology Analyzer 5-Part, Low (FOC)	1 Set	0	12 Sets	0	0
100	Quality Control Haematology Analyzer 5-Part, Normal (FOC)	1 Set	0	12 Sets	0	0
101	Quality Control Haematology Analyzer 5-art, High (FOC)	1 Set	0	12 Sets	0	0

**Latest Brand New Fully Automated Coagulation Analyzer with its accessories (Reagent/Rental Basis) With Printer, UPS, Controls, Calibrators, A Computer System and A Semi Automated Coagulation Analyzer with its accessories for backup (Japan,USA,Europe,UK, Turkey & Singapur).FDA/CE Marked.**

102	PT (with reaction cups)	1x1000 T	85	48000 T	4080000	81600
103	APTT with Calcium Chloride Kits (with reaction cups)	1x1000 T	91.67	45000 T	4125150	82503
104	D.Dimer (with reaction cups)	1x500 T	1725	1000 T	1725000	34500

(Pack size & quantity compatible with the quoted instrument)

**Reagents of Sysmex CA 660 Automated Blood Coagulation Analyzer (Purchased instrument)**

**The company will provide A Semi Automated Coagulate Analyzer with its accessories for backup and a UPS**

105	Reaction Cups/Tubes	1x3000 No	20.76	14000 Nos	290640	5812.8
106	C.A Clean	1x50 (200 T) ml	8000	80 Packs	640000	12800

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
107	PT Reagents	1x1000 T	36	8000 Tests	288000	5760
108	APTT Reagents with Calcium Chloride	1x1000 T	30	6000 Tests	180000	3600
109	Quality Control (Normal)	1x10 ml	15510	12 Sets	186120	3722.4
110	Quality Control (High)	1x10 ml	15510	12 Sets	186120	3722.4

(Pack size & quantity compatible with the quoted instrument)

**Latest Fully Automated HB Electrophoresis reagent rental basis with Printer, UPS, along with all accessories (Japan,USA,Europe, UK, Turkey & Singapur). FDA/CE Marked.**

111	HB Electrophoresis	500 T	350	3000 Tests	1050000	21000
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### **Miscellaneous Items**

112	Giemsa Stain	500 ml	9280	10 Nos	92800	1856
113	Reticulocyte Stain	1x100 ml	4960	5 Nos	24800	496
114	Prussian Blue Stain (Iron/Perl Stain)	1x250 ml	27500	1 Bottle	27500	550
115	Sudan Black B Stain	500 ml	9900	1 Kit	9900	198
116	Periodic Acid-Schiff Stain (PAS)	500 ml	20400	1 Kit	20400	408
117	ESR Solution	1 x 500 ml	244	6 Nos	1464	29.28
118	ESR Stand (fast detector)	1 No	1950	5 Nos	9750	195
119	ESR Tubes (fast detector)	1 No	1490	200 Nos	298000	5960
120	EDTA Tubes	100 Nos	509	4210 Packs	2142890	42857.8
121	PT, APTT Tubes	100 Nos	509	1500 Packs	763500	15270
122	Cedar Wood Oil	1x450 ml	4240	4 Bottle	16960	339.2
123	Slide folder	20 Slides	400	20 Nos	8000	160
124	Slide boxes	100 Nos	400	25 Nos	10000	200
125	Thermometer Specific for Water Bath	1x1 No	750	5 Nos	3750	75

### **Blood Bank Annual Demand**

**Fully Automated, Latest Cross-Match System (On Reagent/Rental Basis) with all accessories Controls and Calibrators, AC 2 ton. (Japan,USA, Europe, UK, Turkey, Singapur) FDA/CE Marked.**

126	Cross Match System	112x12x6 ml	71.88	15000 Tests (Packing size compatible with Quoted instrument)	1078200	21564
127	Diluent	1x500 ml	7.2	15000 Tests (Packing size compatible with Quoted instrument)	108000	2160

(Pack size & quantity compatible with the quoted instrument)

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
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**Manual Reagents**

128	M.P (ICT)	1 No	43.43	12040 T	522897	10457.944
129	22% Bovine Albumin	1x10 ml	2560	6 Packs	15360	307.2
130	Blood group reagents	3x10 ml	743	301 Sets	223643	4472.86
131	A.H.G Coombs Reagent	1x10 ml	573	10 Vials	5730	114.6
132	Anti A1 Lactin (for A1 & A2 Reagent for Blood Grouping)	1x5 ml	7320	360 Nos.	2635200	52704

(Pack size &amp; quantity compatible with the quoted instrument)

**Chemical Pathology Section:****AUTOMATED CHEMISTRY ANALYZER WITH LIMS**

Based on Photometry, TINIA and Indirect ISE on RR Basis with One Backup Instrument:

Throughput minimum 1200-1800 Tests/Hr with ISE, Built-in Refrigerator, Random & Continuous Access, Auto Dilution, Auto Repeat from Pre-Diluted Samples. Built-in QC Program, Up to 14 different Wave Length (300-884 nm), Reagent Position > 80, Sample Position > 80, Reaction Volume < 200 µl, Stat facility, Bar-coding, Clot Detection, Short Sample Detection, On Board Reagent Stability minimum 01 month, on Reagent Rental Basis with Reagent Grade Water Purification System, CE Marked / FDA / GMP Approved. With UPS (5 KVA), Swinging bucket Centrifuge with minimum 40 tubes capacity, Air conditioner 2 Ton, LaserJet Pro M-20 Printer, Refrigerator (2-8°C) and all necessary accessories, controls and calibrators. (Make: USA, Japan, Europe).

**DISPOSABLES:** All Disposable Items, Reaction Trays, Sample Cups, Tips and etc are included with the kits. No hidden accessories or hidden charges should be there or any other requirement of the instrument for its functionality will be free of charge.

Calibrators, Control Sera, Standards are included in the kits or any other solution required for the analysis of the tests will be provided free of charge.

**CONSUMABLES:** Wash Solutions, Detergents, Buffers or any other maintenance solution required by the instrument will be provided free off charges.

133	ALT (P5P)	3920 T 500 T	7.83	181960 Tests	1424747	28494.936
134	Albumin	4560 T	4.00	31920 Tests	127680	2553.6
135	ALP	3280 T 400 T	6.00	97080 Tests	582480	11649.6
136	α-Amylase	960 T 300 T	73.60	2160 Tests	158976	3179.52
137	AST (P5P)	3920 T 500 T	6.50	97080 Tests	631020	12620.4
138	Calcium (Arsenazo)	2800 T 300 T	5.50	23600 Tests	129800	2596
139	Cholesterol	7320 T 400 T	8.25	7320 Tests	60390	1207.8
140	CK-MB	460 T	78.43	920 Tests	72156	1443.112
141	CK (NAC)	920 T	15.00	1840 Tests	27600	552
142	Creatinine Enzymatic	3960 T 700 T	6.00	192260 Tests	1153560	23071.2
143	Glucose	5200 T 800 T	9.41	133600 Tests	1257176	25143.52
144	HbA1c (IFCC/NGSP Certified)	560 T 150 T	308.63	7200 Tests	2222136	44442.72
145	HbA1c Control (two levels)	2x0.25 ml	0.00	4 Kits	0	0
146	HbA1c Denature Reagent	1x50 ml	0.00	<b>As per required by test</b>	0	0



Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
147	HDL-Cholesterol Reagent Kit	740 T 350 T	35.00	14800 Tests	518000	10360
148	Total Bilirubin	6280 T 250 T	8.19	165790 Tests	1357820	27156.402
149	Triglyceride	3000 T 250 T	6.00	15000 Tests	90000	1800
150	Urea	4920 T 500 T	6.00	190260 Tests	1141560	22831.2
151	Uric Acid	2500 T 400 T	8.00	24500 Tests	196000	3920
152	hs-CRP	4x30 ml R2 4x30 (1520 T)	77.60	6080 Tests	471808	9436.16
153	Magnesium Kit	800 T 250 T	11.00	4800 Tests	52800	1056
154	Total Protein Reagent Kit	300 T	4.25	2400 Tests	10200	204
155	Total Protein (Urine/CSF)	100 T	314.50	100 Tests	31450	629
156	LDH	300 T	12.89	4800 Tests	61872	1237.44
157	Phosphorus	250 T	5.25	4500 Tests	23625	472.5
158	Ammonia	100 T	110.00	300 Tests	33000	660
159	Copper	100 T	320.00	200 Tests	64000	1280
160	G6-PDH	100 T	800.00	200 Tests	160000	3200
161	Cystatin C	100 T	367.67	200 Tests	73534	1470.68
162	Iron	100 T	24.25	1500 Tests	36375	727.5
163	TIBC	100 T	54.57	700 Tests	38199	763.98
164	Lactate	100 T	197.24	350 Tests	69034	1380.68
165	Lipase	100 T	198.79	200 Tests	39758	795.16
166	Micro-Albumin	100 T	106.47	100 Tests	10647	212.94
167	Zinc	100 T	900.00	300 Tests	270000	5400
168	Soluble Transferrin Receptors	100 T	4500.00	100 Tests	450000	9000
169	Stone Analysis	100 T	800.00	100 Tests	80000	1600
170	Alpha-1-AT	100 T	453.14	300 Tests	135942	2718.84

### **Drug of Abuse / Toxicology**

***Disposables: All disposables, Reaction Trays, Sample Cups, Tips, etc are included with the kits. No hidden accessories or hidden charges should be there. Or any other requirement of the instrument for its functionality will be free of charge.***

***Calibrators, Control Sera, Standards are included in the kits or any other solution required for the analysis of the test will be provided free of charge.***

***Consumables: Wash Solutions, Detergents, Buffers or any other maintenance solution required by the instrument will be provided free of charge.***

171	Amphetamine	100 T	210.08	100 Tests	21008	420.16
172	Barbiturates	100 T	103.17	100 tests	10317	206.34
173	Benzodiazepines	100 T	92.40	100 tests	9240	184.8



Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
174	Cannabinoids	100 T	156.63	100 tests	15663	313.26
175	Acetaminophen	100 T	157.00	100 tests	15700	314
176	Cocaine Metabolite	100 T	210.00	100 tests	21000	420
177	Ethyl Alcohol	100 T	566.00	100 tests	56600	1132
178	Methadone	100 T	77.00	100 tests	7700	154
179	Salicylates	100 T	367.00	100 tests	36700	734
180	Tricyclic Antidepressants	100 T	245.00	100 tests	24500	490
181	Opiates	100 T	116.00	100 tests	11600	232

### **Therapeutic Drug Monitoring**

**Disposables: All disposables, Reaction Trays, Sample Cups, Tips, etc are included with the kits. No hidden accessories or hidden charges should be there. Or any other requirement of the instrument for its functionality will be free of charge.**

**Calibrators, Control Sera, Standards are included in the kits or any other solution required for the analysis of the test will be provided free of charge.**

**Consumables: Wash Solutions, Detergents, Buffers or any other maintenance solution required by the instrument will be provided free of charge.**

182	Carbamazepine	100 T	292.00	100 Tests	29200	584
183	Digoxin	100 T	368.00	100 Tests	36800	736
184	Levetiracetam	100 T	219.00	100 Tests	21900	438
185	Phenobarbital	100 T	470.00	100 Tests	47000	940
186	Phenytoin	100 T	365.00	100 Tests	36500	730
187	Valproic Acid	100 T	292.00	100 Tests	29200	584

### **Kits / Reagents – ISE**

**Disposables: All disposables, Reaction Trays, Sample Cups, Tips, etc are included with the kits. No hidden accessories or hidden charges should be there. Or any other requirement of the instrument for its functionality will be free of charge.**

**Calibrators, Control Sera, Standards are included in the kits or any other solution required for the analysis of the test will be provided free of charge.**

**Consumables: Wash Solutions, Detergents, Buffers or any other maintenance solution required by the instrument will be provided free of charge.**

188	ISE Buffer	4x2000 ml	3.94	120000 Tests	472800	9456
189	ISE Mid Standard	4x2000 ml	6.25	120000 Tests	750000	15000
190	ISE Reference	4x1000 ml	27.00	120000 Tests	3240000	64800
191	ISE Na / K Selectivity Check	2x25 ml	0.00	2 Packs	0	0
192	ISE Internal Reference	2x25 ml	0.00	1 Pack	0	0
193	ISE Cleaning Solution	6x500 ml	0.00	5 Packs	0	0

**Note: Instrument installation with accessories along with Laboratory Set Up / Renovation will be provided by the awarded firm.**

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
<b><u>KITS for Semi-Automatic Chemistry Analyzer.</u></b>						
<b>Latest Brand New spectrophotometer (Semi-automatic) on Reagent Rental Basis with accessories (sinewave UPS) (Japan, Europe, USA, Germany) CE / FDA approved.</b>						
<b>Disposables: All disposables, Reaction Trays, Sample Cups, Tips, etc are included with the kits. No hidden accessories or hidden charges should be there. Or any other requirement of the instrument for its functionality will be free of charge.</b>						
<b>Calibrators, Control Sera, Standards are included in the kits or any other solution required for the analysis of the</b>						
194	Glucose Reagent Kit	1000 ml	2100.0	25 Kits	52500	1050
195	Urea Reagent Kit (Kinetic UV)	500 ml	8250.0	13 Kits	107250	2145
196	Creatinine Reagent Kit	500 ml	9900.0	14 Kits	138600	2772
197	Uric Acid Reagent Kit	500 ml	7800.0	8 Kits	62400	1248
198	Cholesterol Reagent Kit	400 ml	9800.0	4 Kits	39200	784
199	Triglyceride Reagent Kit	400 ml	8502.0	2 Kit	17004	340.08
200	Direct Bilirubin Reagent Kit	200 ml	12000.0	6 Kits	72000	1440
201	Total Bilirubin Reagent Kit	200 ml	10500.0	7 Kits	73500	1470
202	SGPT Reagent Kit	1000 ml	11123.0	6 Kits	66738	1334.76
203	SGOT Reagent Kit	1000 ml	17447.0	1 Kit	17447	348.94
204	Alkaline Phosphatase Reagent Kit	1000 ml	6499.0	2 Kit	12998	259.96
205	Total Protein Reagent Kit	1000 ml	3031.0	1 Kit	3031	60.62
206	Albumin Reagent Kit	1000 ml	3443.0	2 Kits	6886	137.72
207	Gama GT	0 T	83.3	100 Tests	8333	166.66
208	Phosphorours Reagent Kit	250 ml	2423.0	1 Kit	2423	48.46
209	Serum Iron Reagent Kit	200 ml	6989.0	2 Kits	13978	279.56
210	Total Iron Binding Capacity (T.I.B.C.) Reagent Kit	100 T	7513.0	1 Kit	7513	150.26
211	LDH	1x100 ml	3000.0	5 Kits	15000	300
212	CSF Protein Reagent Kit	125 ml	5400.0	20 Kits	108000	2160
213	Hb.A I C Reagent	100 T	33068.0	2 Kits	66136	1322.72

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
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**Two Latest Brand New Fully Automatic 3-Part Electrolyte Analyzers with Tray with UPS (2 KV PURE SINE WAVE), ISE principle and flexible configuration with low maintenance, QC & QC Data Storage for > 20 days, data record of reagent and consumable tests. Sample specification for Plasma, Serum, Urine, Flagging for abnormal values, Builtin Calibration may be offered on reagent rental basis (Make: USA, Japan, Europe).**

**Disposables: All disposables, Reaction Trays, Sample Cups, Tips, etc are included with the kits. No hidden accessories or hidden charges should be there. Or any other requirement of the instrument for its functionality will be free of charge.**

**Calibrators, Control Sera, Standards are included in the kits or any other solution required for the analysis of the test will be provided free of charge.**

**Consumables: Wash Solutions, Detergents, Buffers or any other maintenance solution required by the instrument will be provided free of charge.**

214	REAGENT Pack	1000 ml (1000T)	40	55000 Tests	2226400	44528
215	Cleaning Solution (FOC)	1 NO.	0	6 Nos.	0	0
216	Quality Control (FOC) (With all three levels and Same Lot with Same Expiry Date on each Supply)	1 NO.	0	6 Nos.	0	0
217	Thermal Printing Paper (FOC)	1 NO.	0	50 Nos.	0	0
218	Sample Cup (As per Requirement) (FOC)	500 Nos	0	50 Nos.	0	0
219	All Consumables as required by the Instrument (FOC)		<b>As per required by test</b>			0
220	Diluent for Urine		11900	5 Nos	59500	1190

**Consumable Items:**

221	Yellow Tips for Micropipette	1x1000 Nos	184	375 Packets	69000	1380
222	Blue Tips for Micropipette	1x500 Nos	209	124 Packets	25916	518.32
223	Torniquete (button)	1x1 Nos	84	56 Nos.	4704	94.08
224	Centrifuge Tube Plastic 3" (Transparent, Plastic Conical)	1x500 Nos	700	76 Packets	53200	1064
225	Gel Test Tube 4ml	1x100 Nos	743	5015 Packs	3726145	74522.9
226	Empty Tube (Red Cap)	1x100 Nos	550	350 Packs	192500	3850
227	Sample Cups (0.5 ml)	1x1000 Nos	3000	200 Packs	600000	12000
228	Disposable Syringe Cap (Stopper)	1x1000 Nos	325	36 Packs	11700	234
229	Serum Cups Electrolyte	1x1000 Nos	4900	40 Packs	196000	3920
230	Alcohol Swab	1x200 Nos	1.21	3000 Nos.	3630	72.6
231	Micropipette (Adjustable) 05-50µl	1 No	8900	3 Nos	26700	534
232	Micropipette (Adjustable) 20-200µl	1 No	8900	3 Nos	26700	534
233	Micropipette (Adjustable) 100-1000µl	1 No	8900	3 Nos	26700	534

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
<b>Hormone Analyzer (Cobas e 411, Roche) (Purchased Instrument)</b>						
234	Elecsys Free T3 II	200 T	47196	6 Kits	283176	5663.52
235	Elecsys FT3 Calset	1x10 Calibrator	9900	3 Sets	29700	594
236	Elecsys Free T4	200 T	47196	6 Kits	283176	5663.52
237	Elecsys FT4 Calset	1X10 Calibrator	9900	3 Sets	29700	594
238	Elecsys TSH	200 T	45333	8 Kits	362664	7253.28
239	Elecsys TSH Calset	1X10 Calibrator	11583	3 Sets	34749	694.98
240	Elecsys $\beta$ -HCG	100 T	34776	6 Kits	208656	4173.12
241	Elecsys $\beta$ -HCG Calset	1X10 Calibrator	11220	3 Sets	33660	673.2
242	Elecsys Prolactin	100 T	32292	4 Kits	129168	2583.36
243	Elecsys Prolactin Calset	1X10 Calibrator	9900	2 Sets	19800	396
244	Elecsys LH	100 T	34776	4 Kits	139104	2782.08
245	Elecsys LH Calset	1X10 Calibrator	11220	2 Sets	22440	448.8
246	Elecsys FSH	100 T	34776	4 Kits	139104	2782.08
247	Elecsys FSH Calset	1X10 Calibrator	11220	2 Sets	22440	448.8
248	Elecsys Testosterone	100 T	52164	3 Kits	156492	3129.84
249	Elecsys Testosterone Calset	1X10 Calibrator	9900	1 Set	9900	198
250	Elecsys Troponin	100 T	52785	12 Kits	633420	12668.4
251	Elecsys Troponin T Calset	1X10 Calibrator	6600	4 Sets	26400	528
252	CA19-9	100 T	82800	1 Kit	82800	1656
253	Calset	1 Set	11000	1 Set	11000	220
254	Elecsys CA-125	100 T	74520	3 Kits	223560	4471.2
255	Elecsys CA-125 Calset	1X10 Calibrator	10560	1 Set	10560	211.2
256	Elecsys CEA	100 T	31050	2 Kits	62100	1242
257	Elecsys CEA Calset	1X10 Calibrator	9900	1 Set	9900	198
258	Elecsys PSA	100 T	44712	3 Kits	134136	2682.72
259	Elecsys PSA Calset	1X10 Calibrator	8700	1 Set	8700	174
260	Elecsys AFP	100 T	39744	3 Kits	119232	2384.64
261	Elecsys AFP Calset	1X10 Calibrator	39744	1 Set	39744	794.88
262	Elecsys Ferritin	100 T	49680	12 Kits	596160	11923.2
263	Elecsys Ferritin Calset	1X10 Calibrator	10560	5 Sets	52800	1056
264	Pro-BNP	100 T	105570	2 Kits	211140	4222.8
265	Pro-BNP Calset	1X10 Calibrator	6000	1 Set	6000	120
266	Thyroglobulin-antigen	100 T	59800	1 Kit	59800	1196
267	Calset	1X10 Calibrator	13200	1 Set	13200	264

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
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**Control Sera:**

268	Elecsys Precicontrol Universal (All levels are with Same Lot and with Same Expiry Date on each Supply)	2(2x3) ml	12450	3 Kits	37350	747
269	Elecsys Precicontrol Tumor Marker (All levels are with Same Lot and with Same Expiry Date on each Supply)	2(2x3) ml	34980	3 Kits	104940	2098.8
270	Elecsys Precicontrol Cardic (All levels are with Same Lot and with Same Expiry Date on each Supply)	2(2x3) ml	15600	1 Kit	15600	312
271	Elecsys Precicontrol Trop-T	4x2 ml	13200	4 Kits	52800	1056
272	Elecsys Assay Cups	60x60 Nos	38610	11 Packs	424710	8494.2
273	Elecsys Assay Tips	30x120 Nos	20077	11 Packs	220847	4416.94
274	Elecsys Clean Cell	(6x380) ml	9290	30 Packs	278700	5574
275	Elecsys Procel	(6x380) ml	9504	30 Packs	285120	5702.4
276	Elecsys System Wash	500 ml	3300	11 Packs	36300	726
277	Universal Diluant	2x18 ml	14345	3 Packs	43035	860.7
278	Hitachi sample Cups	500 Nos	790	200 Packs	158000	3160
279	Eppendorf (Tarpidoz) cups	500 Nos	415	120 Packs	49800	996
280	ISE Cleaning Solution	1x4 Bottles	7260	2 Packs	14520	290.4
281	Measuring Cell	1 No	282400	1 No.	282400	5648
282	Water Reservoir Assay	1 No	84555	1 No.	84555	1691.1
283	FPC Cables (C21-Assay)	1 No	8050	1 No.	8050	161

**Electrochemiluminescence / Chemiluminescence****Based Immunoassay Analyzer with Backup Instrument on Reagent Rental Basis with LIMS:**

**Throughput atleast 86 Tests / Hr with atleast 60 days onboard reagent stability. Use of < 5 Tests/Calibration. Clot detection. Assay Time/Test < 20 min. < 10 minutes STAT Application for Emergency Test. With Printer, UPS (3 KVA Pure SINE WAVE), Fixed angle Centrifuge with 12 tubes capacity, Airconditioner (2 Ton), Refrigerator (2-8°C) and all other accessories (Make: USA, Japan, Europe).**

**Disposables: All disposables, Reaction Trays, Sample Cups, Tips, etc are included with the kits. No hidden accessories or hidden charges should be there. Or any other requirement of the instrument for its functionality will be free of charge.**

**Calibrators, Control Sera, Standards are included in the kits or any other solution required for the analysis of the test will be provided free of charge.**

**Consumables: Wash Solutions, Detergents, Buffers or any other maintenance solution required by the instrument will be provided free of charge.**

284	Free T3	100 T	112	4100 Tests	459200	9184
285	Free T4	100 T	102	4100 Tests	418200	8364
286	Hypersensitive TSH	100 T	110	5700 Tests	627000	12540
287	Prolactin	100 T	176	1100 Tests	193600	3872

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
288	LH	100 T	206	1100 Tests	226600	4532
289	FSH	100 T	109	1100 Tests	119900	2398
290	Testosterone II	100 T	265	1100 Tests	291500	5830
291	Trop I	100 T	350	3100 Tests	1085000	21700
292	CA-125-II	100 T	450	700 Tests	315000	6300
293	CEA	100 T	220	600 Tests	132000	2640
294	Free PSA	100 T	350	800 Tests	280000	5600
295	AFP	100 T	350	900 Tests	315000	6300
296	Ferritin	100 T	117	2700 Tests	315900	6318
297	Free $\beta$ -HCG	100 T	250	1200 Tests	300000	6000
298	Procalcitonin	100 T	1650	100 Tests	165000	3300
299	RBC Folate	100 T	256	100 Tests	25600	512
300	Vitamin B-12	100 T	230	100 Tests	23000	460
301	Anti CCP	100 T	680	100 Tests	68000	1360
302	iPTH	100 T	374	100 Tests	37400	748
303	Vitamin D (Total)	100 T	840	100 Tests	84000	1680
304	Insulin	100 T	239	100 tests	23900	478
305	ACTH	100 T	1200	100 Tests	120000	2400
306	Cortisol	100 T	138	100 Tests	13800	276
307	AMH	100 T	1650	100 Tests	165000	3300
308	Progesteron	100 T	211	100 Tests	21100	422
309	SHBG	100 T	1095	100 Tests	109500	2190
310	Anti-TPO	100 T	786	100 Tests	78600	1572
311	Anti-Thyroglobulin	100 T	787	100 Tests	78700	1574
312	IgE Total	100 T	277	100 Tests	27700	554
313	NT-Pro BNP	100 T	1356	100 Tests	135600	2712
314	IL-6 Level	100 T	750	100 Tests	75000	1500

### Histopathology Section:

315	Formaline	1x2500 ml	2750	100 Bottles	275000	5500
316	Xylene	1x2500 ml	3440	60 Bottles	206400	4128
317	Paraffine Wax Granular	1x2.5 kg	3160	20 Packts	63200	1264
318	Isopropyle Alcohol (100 % pure)	1x2500 ml	2880	100 Bottles	288000	5760
319	DPX Mounting Media	1x500 ml	6320	10 Bottles	63200	1264
320	Glass slide with frosted end for Histopathology	1x50 Nos.	185	200 Packets	37000	740
321	Cover Slip Glass 24x50	1x100 Nos.	145	100 Packets	14500	290
322	Disposable Blade High Profile (LEICA 818)	1x50 Nos.	9750	10 Packets	97500	1950

Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
323	Plastic Bottles with Nozzle (500ml)	1x1 No.	650	10 Nos	6500	130
324	Diamond Pencil (Glass Marking)	1x1 No.	400	10 Nos	4000	80
325	Glass Staining Jars (for 30 slides)	1x1 No.	500	10 Nos	5000	100
326	Tissue processing capsule (plastic)	1x250 No.	2400	20 Packts	48000	960
327	Tissue processing capsule (steel)	1x1 Nos.	2700	100 Nos	270000	5400
328	Embedding cassettes (plastic)	1x250 No	2100	20 Packts	42000	840
329	Harris Heamotaxline (ready to use)	1x500 ml	11600	20 Bottles	232000	4640
330	Pap stain (ready to use with long expiry)	1x1 Kit	49350	1 Kit	49350	987
331	Ghomari stain (ready to use with long expiry)	1x1 Kit	42500	2 Kits	85000	1700
332	PAS Stain	2x500 ml	20400	2 Kits	40800	816
333	Tissue Marking Dye (Black)	2x100 ml	25000	2 Bottles	50000	1000
334	Tissue Marking Dye (Yellow)	1x100 ml	12500	1 Bottle	12500	250
335	cinc-HCL	1x2.5 Ltr	6500	5 Bottles	32500	650
336	Strong Ammonia (Pure)	1x2.5 Ltr	7200	3 Bottles	21600	432
337	Acitic Acid	1x2.5 Ltr	2000	2 Bottles	4000	80
338	Slee Lowprofile Microtome blade	50 Nos	8000	10 Packs	80000	1600
339	Plasma Pheresis Kits + Compatible Reagent	1 Kit	14900	100 Kits	1490000	29800
<b>BSL-III LAB</b>						
340	Amplification Kit	1x48 T	989	12000 T	11868000	237360
341	2 ml Screw Cap Tube (Orange Cap)	500 Nos	700	10 Packs	7000	140
342	Nuclease Free Water	1000 ml	10000	10 Bottles	100000	2000
343	Falcon Tubes (BSL-III)	50 ml	36	1800 Nos.	64800	1296

**MEDICAL SUPERINTENDENT**  
Sheikh Zayed Hospital,  
Rahim Yar Khan



Sr. No.	Item Description	Pack Size	Last Year / Estimated Market Rates	Estimated Annual Demand for 2022-23	Total Estimated Amount FY 2022-23	2% Bid Security
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