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(A Government of India Enterprise)  
Projects Division  
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**AMENDMENT No. 2**

Sub: Supply, Installation, Testing and Commissioning of Biochemistry Auto Analyser Machine & its accessories for Diagnostic Lab Facility at Sector 39, Gurugram - reg.

Ref: 1) Our IFB Ref No: HLL/CHO/PROJ/HCS/MCG-EQP/ BIO/2018-19 dated 10.10.2018  
2) Pre-bid Meeting held on 24-10-2018.

**Amendment Date: 08-11-2018**

With reference to the tender and the pre-bid meeting held on 25-10-2018, **Schedule II - Specifications & Price Bid** are amended as mentioned below.

**All other terms and conditions of the tender remain unchanged.**

**SENIOR MANAGER (PROJECTS)**

## SCHEDULE II - AMENDED

### SPECIFICATIONS

Sub: Supply, Installation, Testing and Commissioning of Biochemistry Auto Analyser & its accessories for Diagnostic Lab Facility at Sector 39, Gurugram, Haryana as per the tender specifications – reg.

**Item Name: Fully Automated Biochemistry Analyser with accessories**

**Quantity: 2 Nos.**

#### Technical Specifications

- It should be a Brand new Automated, Discrete, and Random Access, Clinical chemistry Analyzer capable of performing Calorimetry, Latex Agglutination and turbidimetry assays.
- It should be a floor model.
- The throughput should be more than 500 photometric tests / Hour without ISE.
- It should have more than 45 onboard chemistries
- Should be able to test drugs of abuse, TDM assays.
- It should have **miniumum 120 number of** programmable Chemistries, Profiles and Calculation Item.
- It should accept Linear, Non-Linear, Multi Point Calibration.
- "System should be Rack sampler - Minimum 10 samples per rack with barcodes on primary tubes and on racks."
- "Minimum Capacity of 150 samples at a time and Facility to run simultaneously: Cal, QC and routine samples.
- It should accept 5 ml, 7 ml, 10 ml and sample cups for sampling.
- The sample pipetting should be **Greater than or equal to 1.5 Micro litres to Less than or equal to 50 micro litres.**
- It should have a separate sample probe & reagent probes.
- The reagent tray should be cooled and should accept more than 50 reagent bottles. It should accept 20 ml to 60 ml bottles.
- The system should be ready to test with Serum, plasma, urine, whole blood and other fluids.
- The system should be with online temperature monitor for Reagent cabin etc. all.

- It should have inbuilt barcode reader for both reagents and samples.
- Reagent pipetting should be between 15 – 250 micro litres or less.
- The reaction cuvettes should be more than 60 and made up of permanent glass cuvettes (Re-Usable).
- On line Reaction Graph should be displayed on the screen and all the reaction graphs should be stored in the memory.
- The system should be able to store at least 5000 test/graphs).
- The total reaction volume should be less than 450 micro L.
- It should have on board laundry for washing of the cuvettes.
- Photometer should consist of 13 wavelengths in the range 340 to 800 nm. It should be capable of doing Monochromatic and Bichromatic measurements.
- Light source should be with long life. (Light source should have a Life of minimum 800 Hours).
- Absorbance range should be 0.0 – 3.0 or more Abs.
- It should have periodical (daily and monthly) Cumulative Levy Jennings Chart and Twin Plot and cooled QC positions.
- Should be able to test samples types; serum; plasma; urine; whole blood; CSF; other body fluids.
- It should have facility of auto re-run, auto dilution of sample facility.
- Should have STAT facility: continuous loading of samples without interrupting the routine run for emergency samples.
- Facility of Skipping of dirty cuvettes should be available.
- ***The system should provide facility for larger menu of reagents including Immunoassay analysis system in a single platform.***
- The mixing stirrer should be ***Contamination free.***
- The system should have auto clot/ Obstruction recognition and auto clearing mechanism.
- Should provide the list of all reagents, calibrators, controls and all other kinds of solutions and Consumables required to run the equipment along with the price bid.
- Should be compatible to Power supply: 220 – 240 V, 50 Hz.

- Should be compatible to Windows XP or higher.
- RO Water Plant: Water plant should be supplied along with the equipment which should meet the water input throughput (The RO plant should have a capacity of minimum 200 Liters per hour) and the TDS requirement of the equipment (Irrespective of water inlet TDS parameters to the filter) with minimum 5 years of warranty.
- Hardwares & Accessories: Supplier should supply all the Hardwares, accessories and consumables including reagents, Calibrators and Quality control material for the primary equipment Installation, Calibration and Validation of all the tests with their own cost. The cost of the consumables and accessories of the RO plant shall also be submitted in the price bid.
- The bidder shall declare the price, make and model of all the accessories.
- Installation of Instrument and Validation of tests: OEM should install the equipment in the space provided by HLL and validate the tests as per HLL protocol at their own cost.
- UPS: Suitable online UPS with at least 2 hours backup. The UPS should have 5 years warranty.
- LIS / HMIS: The System should be capable of interfacing with LIS / HMIS. Health level 7 methodology with Uni and Bidirectional query communications.
- Service Network: The company supplying the instrument should have service and distributor network All over India.
- **Comprehensive Warranty:** 5 years comprehensive warranty shall be provided free of cost with the Equipment.
- **Comprehensive Annual Maintenance Contract (CAMC) rates:** Should be quoted for another 5 Years after the completion of 5 years comprehensive warranty period in Price Bid (Schedule V - Annexure II) which will be considered for finalizing the L1 bidder and order placement on the Supplier after comprehensive warranty period of 5 years.
- **Reagent Cost:** Format for Quoting reagent price on Cost per Reportable test basis is given in Schedule V - Annexure III which will be considered for finalizing the L1 bidder and order placement on the Supplier **for minimum 6 years, after supply of equipments. Rate validity for reagents shall be provided for minimum 6 years.**
- Parts required on FOC with the equipment: CD / DVD Rom with driver, software's and Operations manual, One set Preventive Maintenance kit, five numbers of Lamp suitable for the equipment, Instruction manual Hard copy original, Reference manual, Host manual, 1 Nos of External Barcode reader, 1 No. of External MFP Laser Jet printer, Equipment maintenance tool kit.
- System should have facility to **integrate with another immunoassay analyzer** in future with one work station.

**SCHEDULE V**- Amended**ANNEXURE III - Amended****FORMAT FOR QUOTING THE COST PER REPORTABLE TEST**

Equipment type: <b>BIOCHEMISTRY AUTO ANALYSER</b>							
Equipment brand name:							
Equipment Model:							
Throughput (If applicable):							
Sl. No.	Test	(A)	(B)	(C)	(D)	(E)	(E * D)
		Available Pack Size	Number of test possible to be performed using this pack size.	Price of Quoted Pack Size (Inclusive of GST)	Weightage (For 6 years)	CPRT (Inclusive of GST)	
1	GLUCOSE				324000		
3	TRIGLYCERIDES				151200		
4	HDL				151200		
5	LDL				8640		
6	UREA				108000		
7	CREATININE				108000		
8	URIC ACID				108000		
9	TOTAL PROTEIN				108000		
10	ALBUMIN				108000		
11	SGOT				108000		
12	SGPT				108000		
13	ALP				108000		
14	BILIRUBIN TOTAL				129600		
15	BILIRUBIN DIRECT				129600		
16	GGT				43200		
17	CALCIUM				43200		
18	PHOSPHOROUS				43200		
19	MAGNESIUM				10800		
20	AMYLASE				4320		
21	LIPASE				4320		
22	IRON				10800		
23	LDH				2160		
24	CERULOPLASMIN				360		
25	IMMUNOGLOBULIN G				2160		
26	IMMUNOGLOBULIN A				2160		
27	IMMUNOGLOBULIN M				2160		
28	IMMUNOGLOBULIN D				<i>(Optional)</i>		

Equipment type: BIOCHEMISTRY AUTO ANALYSER							
Equipment brand name:							
Equipment Model:							
Throughput (If applicable):							
Sl. No.	Test	(A)	(B)	(C)	(D)	(E)	(E * D)
		Available Pack Size	Number of test possible to be performed using this pack size.	Price of Quoted Pack Size (Inclusive of GST)	Weightage (For 6 years)	CPRT (Inclusive of GST)	
29	AMMONIA				360		
30	BICARBONATE				<i>(Optional)</i>		
31	CRP				32400		
32	ASO				8640		
33	RF				64800		
34	CK				10800		
35	CK-MB				10800		
36	HbA1C				129600		
37	COMPLEMENT 3				2160		
38	COMPLEMENT 4				2160		
39	MICROALBUMIN				6480		
40	APO A				2160		
41	APO B				2160		
42	TRANSFERRIN				2160		
43	DIGOXIN				2160		
44	DIGITOXIN				2160		
45	UIBC				4320		
46	HAPTOGLOBIN				2160		
47	PHENYTOIN				2160		
48	CARBAMAZEPINE				4320		
49	VALPROIC ACID				2160		
50	BARBITRATES				360		
51	URINE PROTIEN				108000		
52	LACTATE				<i>(Optional)</i>		
53	LPa				<i>(Optional)</i>		
54	MYOGLOBIN				360		
55	SALICYLATE				4320		
56	THC				<i>(Optional)</i>		
57	KAPPA				<i>(Optional)</i>		
58	LAMDA				<i>(Optional)</i>		
59	LITHIUM				360		
60	COCAINE				2160		
61	ACP				<i>(Optional)</i>		
62	PHENOBARBITOL				360		
63	HOMOCYSTEINE				<i>(Optional)</i>		

<b>Equipment type: BIOCHEMISTRY AUTO ANALYSER</b>							
<b>Equipment brand name:</b>							
<b>Equipment Model:</b>							
<b>Throughput (If applicable):</b>							
Sl. No.	Test	(A)	(B)	(C)	(D)	(E)	(E * D)
		Available Pack Size	Number of test possible to be performed using this pack size.	Price of Quoted Pack Size (Inclusive of GST)	Weightage (For 6 years)	CPRT (Inclusive of GST)	
Sum Amount							Σ
<b>Gross Amount in Rs (For 6 years):</b>							
*CPRT - Cost Per Reportable test (Inclusive of all consumables, reagents, calibrators, Cleaning & washing solutions whatsoever it may be required to perform test)							

**Note:-**

- 1) Total Reagent Cost = Total of (CPRT cost X Weightage)
- 2) **Weightage for Optional tests will be taken as Zero.**
- 3) The quoted rates for reagents ( C ), shall be valid for a **minimum period of 6 years.**
- 4) The Supplier shall guarantee CPRT quoted above and payment for reagents will be based on CPRT. Proportional deduction will be effected in payments for any % reduction in the same.