AMENDMENT NO.1 Dated 10.June.2017

Ref Tender No: HLL/SD/CHO/2017-18/TENDER/001

The following amendments have been incorporated to the bid document for the above Tender for Supply of Diagnostic Equipments under reagent rental Scheme to HLL Lifecare Limited's Diagnostic laboratories across India

1. AMENDED TENDER DETAILS

The Annexure NO: 1 shall be read as below

ANNEXURE - 1

LIST OF EQUIPMENTS REQUIRED UNDER REAGENT RENTAL SCHEME

SL.NO	EQUIPMENT	ESTIMATED QUANTITY (IN NOS)
1	Automated Real Time PCR system with Automated Extraction Purification - system	1 Number (Indicative)
2	Automated Electrophoresis System	1 Number (Indicative
3	Automated Blood Culture, ID & Susceptibility system	2 Numbers (Indicative)
4	Low throughput Fully Auto Biochemistry Analyzer	57 Numbers (Indicative)

Annexure 1.1 A

SL. NO	SPECIFICATION FOR AUTOMATED REAL TIME PCR SYSTEM	Whether the product meets the technical spec (Yes/No)
1	Sample capacity : up to 96	
2	Reaction volume : 0.1 mL block/ rotor: 10–30 µL or : 0.2 mL block/rotor: 10–60/100 µL	
3	Excitation source- LED / HALOGEN	
4	Optical detection : filters / CCD/ PMT	
5	Excitation/detection range : 450–680 nm/500–730 nm	
6	Multiplexing : up to 5 / 6 targets	
7	2D barcode reading- Optional	
8	Heating/cooling method- Peltier/air based	
9	Max ramp rate-0.2 mL : 5 - 6.5°C/sec 0.1 mL: 9.0°C/sec	
10	Average sample ramp rate-3.66°C/sec or more	
11	Temperature uniformity : less than One	
12	Temperature accuracy-0.25°C to 0.5^0C	
13	Run time : < 40 Mnts in FAST mode or < 150 Mnts in standard.	
14	Dye compatibility (name)- FAM/SYBR Green, VIC/JOE/HEX/TET, ABY/NED/TAMRA/Cy3, JUN, ROX/Texas Red, Mustang Purple, Cy5/LIZ, Cy5.5;	
15	Chemistry capabilities- Fast/standard	
17	Detection sensitivity-1 copy	

18	Sensitivity- Detect differences as small as 1.5-fold in target quantities in singleplex reactions	
19	Equipment shall be IVD certified.	

ANNEXURE – 1.1B

SL. NO	SPECIFICATION FOR AUTOMATED EXTRACTION PURIFICATION - SYSTEM FOR RT PCR	Whether the product meets the technical spec (Yes/No)
1	System must be Automated Extraction- Purification system-scalable isolation of protein / nucleic acid / cells.	
2	**Applications** : DNA and RNA isolation from various Starting materials/ proteomic applications/cell isolation.	
3	**Sample per run** : UP to 96	
4	**Volume range** : 50–1,000 µL, 96 deep-well plate / Plate : 200–5,000 µL, 24 deep-well plate/Plate : 20–200 µL, 96-well plate/Plate Heating/cooling	
5	**Heating Temperature**: From 5˚C above ambient temperature up to 115˚C.	
6	**Internal memory** : Space for about 500 or more protocols	
7	Computer interface : LAN/USB/RS232.	
8	FULLY automated walk away nucleic acid (both DNA/RNA),	
9	It should work with proven spin-column chemistries or magnetic bead for all the applications.	

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ANNEXURE 1.2

SL. NO	SPECIFICATION FOR AUTOMATED ELECTROPHORESIS SYSTEM.	Whether the product meets the technical spec (Yes/No)
1	Should be Automated bench-top analyzer	
2	Should have capacity for up-to 12 for Hb and 24 Serum Protein , 4 for IFE sample simultaneous application	
3	Should have special applicators for precise sample application	
4	Should have precise antiserum applicator for IFE ensuring complete lane coverage.	
5	Should have optimized Gel Range to run various electrophoretic tests – Serum Proteins, Serum Protein Split Beta, Serum Proteins High Resolution, Alkaline and Acid Hemoglobin's, Lipoproteins, Cholesterols, Alkaline Phosphatase, CK, LD and Immunofixations both Serum and Urine Proteins.	
6	Should have simple to use intuitive software	
7	Should be using semi-dry buffer system	
8	Gels should have pre casted buffers	
9	System should have for high voltage applications like Iso Electric Focusing to run Hb IEF, IgG IEF and Transferrin IEF.	
10	System should have optimized temperature operation.	

	Specifications for Staining/Drying unit	
1	Should have simple to use interface software	
2	Should be optimized for gel clarity	
3	Should be walk-away bench-top system	
4	Should have capacity to hold gels of different sizes	
5	Should have multiple ports for different stains, destains, wash solution	
6	System should be working on No-carryover technology	
7	System should have through put of 12 Hb sample per hour / 24 Serum Protein samples per hour / 4 IFE sample per hour	
	Specifications for software	
1	System should be provide with suitable scanning unit and computer system	
2	Should be simple to use windows based software	
3	Should have single screen navigation	
4	Should have Gel, sample, trace, demographics, patient history status, attached IFE's and trace analysis all visible in single window	
5	Should have natural workflow from scan to report	
6	Should have full color density scan in one pass	
7	Should have full suite editing tools	

8	Should have historical, multi-sample and control overlay capability	
9	Should have automated levey-jennings analysis and standard deviations	
10	Should have automated flagging of abnormal-normal samples	
11	Should have capacity of fully customizable reports	

Date:

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ANNEXURE – 1.3A

SL. NO.	AUTOMATED BLOOD AND TB CULTURE SYSTEM SPECIFICATION	Whether the product meets the technical spec (Yes/No)
1	Fully automated microbial detection system.	
2	Single compact system capable of processing blood, body fluids and other specimens for bacterial (aerobic and anaerobic), fungal and TB culture if available, preferred.	
3	Should have FDA clearance or other equivalent quality certification for Blood culture & Sterile Body Fluids.	
4	Bottles used for blood and sterile fluids should have the antibiotic and other anti-bacterial agents neutralization capacity.	
5	Culture media should be available for detecting both bacteria and yeast	
6	Should analyse each sample separately as per ID, time of entry, incubation period, growth etc., System with ability to take patient I.D. by barcode preferred.	
7	System should have LIS compatibility, inbuilt calibration check and quality control.	
8	System should have high sensitivity & specificity with continuous monitoring of all samples. Continuous agitation system to allow better organism growth.	
9	System should be capable of exporting data to the data management system for long-term storage. Should have minimum 3 days standalone data storage capability in case of system malfunction.	
10	System should have capacity to load at least 200 samples.	
11	System with a modular design, capable of increasing the capacity (upgradation) in future, Upgradation to additional Module should be done by the supplier without additional cost, as and when the sample	

	load demands the upgradation.	
12	Should include data management system and software to analyze and store the data.	
13	Should have all accessories required for the functioning of the equipment.	
14	Service providers should supply culture bottles (Poly carbonate), and other necessary items for aerobic & anaerobic bacterial culture (both adult and paediatric), fungal culture & TB culture on demand without delay.	
15	There should be provision for demonstration of the equipment and training of Staff for specimen collection and processing.	

ANNEXURE – 1.3B

SL. NO.	**AUTOMATED IDENTIFICATION AND SUSCEPTIBILITY SYSTEM SPECIFICATION**	**Whether the product meets the technical spec (Yes/No)**
1	Fully automated, walkaway system for Microbial identification and antibiotic susceptibility.	
2	The system having provision for doing identification and susceptibility testing separately if available, preferred.	
3	The system must have the capacity to accommodate a minimum of 25 tests.	
4	The system having a bar code scanning device for test card identification and specimen number entry preferred.	

5	The system must have identification cards / panels for Gram negatives, Gram positives, Yeast & other yeast like organisms, Anaerobes and Neisseria / Haemophilus and Susceptibility cards/ panels for Gram negative, Gram Positive or Yeast.	
6	The system should provide highest discrimination between species.	
7	The system should have software that interprets the raw results and gives expertise results.	
8	The software must have the following capabilities	
i.	Workflow management.	
ii.	Long term Data Storage	
iii.	Test quality control management	
iv.	Test result validation capability and ability to detect antibiotic resistant bacteria.	
9	The system must have the ability to check the quality of test results.	
10	The system software must have the ability to alert to any unusual resistance mechanism.	
11	The supplier must state performance of identification cards/panels.	
12	The supplier must state the mean time to result for identification for Gram negative, Gram positive and Yeast.	
13	Should have all accessories required for the functioning of the equipment.	
14	All consumables required for installation and standardization of the system to be given free of cost.	
15	Updating the list of organisms and drugs as and when available.	
16	Upgradation of the existing system in future.	
17	Technical aspects should be discussed as and when required.	
18	Published data in indexed journals regarding the efficacy of the equipment if any, to be provided.	

19	Any software or database updates should be done free of cost by the firm, during the life of the equipment, as and when it is released by the manufacturer.	

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Annexure 1.4

SL. NO.	SPECIFICATIONS OF LOW THROUGHPUT FULLY AUTOMATED CLINICAL CHEMISTRY ANALYZER	Whether the product meets the technical spec (Yes/No)
1	Random Access Clinical chemistry Analyzer capable of performing biochemistry and Immuno turbidimetry assays.	
2	The throughput should be at least 100 tests/hr photometric tests	
3	It should have more than 24 on line chemistries.	
4	It should not have any limit on number of programmable Chemistries, Profiles and Calculation Item.	
5	It should accept Linear, Non-Linear, Multi Point Calibration.	
6	Sample disk should accept minimum 20 samples at a time. All the positions on the sample disk should accept STAT samples, blanks, controls, standards	
7	It should accept 5 ml/ 7 ml/ 10 ml and sample cups for keeping samples.	
8	The sample pipetting should be between 3 – 65 μl.	
9	The reagent tray should be cooled and should accept 20 or more reagent bottles.	
10	Biohazard waste should be collected in a separate container.	

11	It should have fixed barcode reader for samples (Optional).	
12	Reagent pipetting should be between 50 – 450 µl in steps of 1µl.	
13	The reaction cuvettes should be more than 25.	
14	The minimum reading volume should be 300 µl or less.	
15	It should have on board cooling for reagents to maintain the stability of reagents.	
16	Photometer should consist of 8 stationary filters, starting from 340nm or should have grating system.	
17	It should be capable of doing Monochromatic and Bichromatic measurements.	
18	Light source should be Halogen / LEDs Lamp.	
19	Absorbance range should be 0.0 – 3.0 or more Abs.	
20	It should have extensive Q. C. program. Should show daily and monthly Levy Jennings Chart and Twin Plot.	
21	Probe should have Vertical obstruction Detection and liquid level sensing.	
22	Necessary Online UPS with One hour back up should be provided.	
23	The company supplying the instrument should have service and distributor network all India.	

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