Bihar Medical Services & Infrastructure Corporation Limited 4th floor State Building Construction Corporation Limited. Hospital Road, Shastri Nagar, Patna 800023, Phone/Fax: +91612 2283287,+ 91612 2283288

Corrigendum-V

Bihar Medical Services and Infrastructure Corporation Limited (BMSICL) had invited E-Bids from the interested parties for the procurement, rate contract and the supply of medical equipment for different Govt. Health Institutions of Bihar vide Notice Inviting Tender No.-BMSICL/2021-22/ME-274. During Pre-bid meeting various suggestions were received from different prospective bidders regarding amendment in technical specification of equipment which were discussed and deliberated on by the experts. On the basis of their recommendations certain amendments in the technical specification of the equipment have been made which are annexed as **Annexure-I** of this corrigendum. Rest of the terms and conditions of the NIT shall remain unchanged.

Sd/-
GM (Procurement)
BMSICL

Annexure-I

Name of Equipment:- High Performance Liquid Chromatography (HPLC) Machine		
SI. No	**Technical Specification as per tender**	**Proposed Amendment**
1	Automated, Integrated system, dedicated to HbA1c. Thalassaemia and hemoglobinopathy testing and screening based on HPLC technology.	No Change
2	The system should be able to screen and quantitate hemoglobin's Hb A2, Hb A, Hb F and Hb A 1c and detect the most commonly occurring abnormal hemoglobin's like Hb s, Hb D, Hb E, Hb C, Hb Q-India and other rare abnormal hemoglobin's.	No Change
3	Complete ready to use reagent format should be provided with buffers in plastic tanks/aluminium tank/ pouches with a facility to view and show the number of different reagents	No Change
4	It should have a faster throughput of 7 or higher operating system	No Change
5	It should have built in DVD drive/ USB drive for data feeding	No Change
6	It should have facility for exporting results to USB Drive/Card for back up data archive of at least 10000 results.	No Change
7	It should have chromatogram library with fully classified abnormal haemoglobins and thalassemia majorly prevailing in India and across the world.	No Change
8	The system should have in-kit external standards for instrument calibration ensuring accurate quantitation of results.	No Change
9	The HPLC System should have an automated buffer delivery system that ensures a continuous and precise buffer gradient at High Pressure.	No Change
10	The system should have a bi-directional LIS	No Change
11	The system should have a feature of rack & sample position identification to avoid error in case of bad/fault barcode reading.	No Change
12	The system should have a visible alarm system for low buffer in the mobile phase reservoirs, low level value for cartridge injections and overflow for the waste tank, as well as built in alarms for calibration failure.	No Change
13	The system should be capable of positive sample identification using a Barcode reader.	No Change
14	The system should have the facility of primary tube sampling and direct dilution of the samples without manual intervention.	No Change
15	It should have an inbuilt system check facility which checks that all the system parameters (etc., cartridge, Buffer, reagent, waste etc.) are ready before the sample analysis.	No Change
16	The system should have mode to perform HbA1c or HbA2/HbF without changing any reagents or columns	No Change
17	The system should not require changing of reagents while switching from HbA1c to HbA2/Hb F/Hba1c testing mode.	No Change
18	The system should be able to detect correct A1c values in presence of abnormal hemoglobin variants like HbD, HbE, HbS & HbC.	No Change
19	Assay time should not be more than 3 minutes for HbA1c testing and 6.5 minutes for A2/F testing	No Change
20	The system should be NGSP (National Glycohemoglobin Standardization program) Certified and traceable to IFCC reference method.	No Change
21	The system should offer both NGSP & IFCC value reporting on the same patient report, control & calibrator report.	No Change

22	It should be able to print a hard copy report giving identification and information on the subtype and quantity of hemoglobin's detected. It should have the facility to view current and stored chromatograms & should enable storage of chromatograms.	No Change
23	It should have sufficient data hard disk of approx. 80 GB hard drive and a remote access feature when connected to LAN or intranet or RS-232	No Change
24	The company should be able to provide normal and abnormal controls for HbA2 and HbF. Optional controls for HbS can be supplied. The company should facilitate Quality control program to help copare results with similar users worldwide.	No Change
25	The company should facilitate External Quality Assurance Service (EQAS/CAP etc.) for haemoglobin variants.	No Change
26	The system should have software for real time viewing of the analysis of the sample.	No Change
27	The system should be USFDA/European CE issued by notified body.	No Change
28	The company should have offline library of chromatograms for result interpretation.	No Change
29	The system should have optional feature to load at least 50 samples simultaneously with continuous loading facility	The system should have optional feature to load at least 80 samples simultaneously with continuous loading facility
30	The company should have option feature of capillary collection kit for remote sample collection with sample stability at 2-8 C for 14 days.	No Change
31	**To be provided as a start-up kit/ Reagent free of cost at the time of installation** - 400 kit for HbA1C, 100 Kit for Hb F and 200 kit for HbA2 /reagents and other Reagents (Cleaner/Washer/Diluent /Kits /Calibrator, QCs (Positive control and Negative control required daily) /Tips required /Any other accessory required for the above parameters, to be provided free of cost	**To be provided as a start-up test/ Reagent free of cost at the time of installation** - 400 test for HbA1C, 100 test for Hb F and 200 test for HbA2 /reagents and other Reagents (Cleaner/Washer/Diluent /tests /Calibrator, QCs (Positive control and Negative control required daily) /Tips required /Any other accessory required for the above parameters, to be provided free of cost

32	Cost of above mentioned kit for HbA2/Hb F/Hba1c /reagents and other Reagents (Cleaner/Washer/Diluent /Kits /Calibrator, QCs (Positive control and Negative control required daily) /Tips required /Any other accessory required for the above parameters according to the mentioned number of tests must be quoted in Financial Bid and the rate will be frozen for 5 years . L-1 will be decided on considering unit price of the equipment and Cost of (8000 kit for HbA1C, 2000 Kit for Hb F and 4000 kit for HbA2) along with their all consumables to perform those tests	Cost of above mentioned test for HbA2/Hb F/Hba1c /reagents and other Reagents (Cleaner/Washer/Diluent /Tests /Calibrator, QCs (Positive control and Negative control required daily) /Tips required /Any other accessory required for the above parameters according to the mentioned number of tests must be quoted in Financial Bid and the rate will be frozen for 5 years . L-1 will be decided on considering unit price of the equipment and Cost of test in 5yrs (8000 test for HbA1C(800 test in 6 month), 2000 test for Hb F (200 test in 6 months)and 4000 test for HbA2(400 test in 6 month)along with their all consumables to perform those tests provided the bidder gives the details the exact quantity of each such consumable required to perform these tests.

Name of Equipment: - Semi Automated Column Agglutination Technology		
SI. No	**Technical Specification as per tender**	**Proposed Amendment**
A.	**Column Agglutination Technique (CAT) Centrifuge**	
1	It should have 8 or more slots to centrifuge any combin "Column agglutination Technology – CAT" based cards.	No Change
2	Monitored by microprocessor	No Change
3	Rpm, time & Functions displayed (LCD) in English.	No Change
4	Centrifugation time for pulling only RBCs and attached antibodies through the column in centrifuge with 2 different speeds	Should have facility to pull agglutinated red cells and free red cells through centrifugation separately.
5	Programmable audible alarms for end of centrifugal time periods.	No Change
B.	**Column Agglutination Technique (CAT) Incubator**	
1	Capacity to incubate minimum 20 CAT Cards	No Change

2	Standard program: between 5 to 15 Minutes at 37 degree C (+2 degree c)	No Change
3	Individual timers for 2 separate batches for incubation.	No Change
C.	**Column Agglutination Technique (CAT) Centrifuge & Incubator can be integrated or separate equipment & Should have following**	
1	Should be USFDA (510 K)/ European CE (issued by notified body)	No Change
2	Electrical requirement: 240V/ 50HZ- 60 Hz	No Change
D.	**To be provided as a start-up kit/ Reagent free of cost at the time of installation**	
1	Blood Grouping Test Forward-2000 test (6 months expiry)	Blood Grouping Test Forward-500 test (minimum 6 months expiry)
2	Weak D (Du test)- 200 test	Weak D (Du test)- 100 test
3	Cross Matching- 5000 (6 months expiry)	Cross Matching- 1000 (minimum 6 months expiry)
4	Antibody Screening- pooled O cell and 3 cell panel each 100 test (Expiry 20 to 25 days)	NO Change
5	Antibody Identification- 5000 test	Antibody Identification- 100 test
6	Antigen Phenotyping-5000 test	Antigen Phenotyping-100 test
	Cost of above-mentioned kit /reagents and other Reagents (Cleaner/Washer/Diluent /Kits /Calibrator, QCs (Positive control and Negative control required daily) /Tips required /Any other accessory required for the above parameters according to the mentioned number of tests must be quoted in Financial Bid and the rate will be frozen for 5 years, the Contract for which may be extended further but not later than further five years with mutual consent. L-1 will be decided on considering unit price of the equipment and Cost of test (Blood Grouping test Forward for 50000 test + weak D (Du) for 2000 test + Cross matching for 50000 test + Antibody Screening pooled O cell and 3 cell panel each for 1000 test + Antibody Identification for each 50000 test + Antigen Phenotyping for 50000 test) along with their all consumables to perform those tests	Cost of above-mentioned kit /reagents and other Reagents (Cleaner/Washer/Diluent /Kits /Calibrator, QCs (Positive control and Negative control required daily) /Tips required /Any other accessory required for the above parameters according to the mentioned number of tests must be quoted in Financial Bid and the rate will be frozen for 5 years, the Contract for which may be extended further but not later than further five years with mutual consent. L-1 will be decided on considering unit price of the equipment and Cost of test in 5 yrs (Blood Grouping test Forward for 50000 test(5000 test in 6 months) in 5yr + weak D (Du) for 2000 test(200 test in 6 months)in 5 yrs+ Cross matching for 50000 test(5000 test in 6 months) in 5yr + Antibody Screening pooled O cell and 3 cell panel each for 1000 test(100 test in 6 months) in 5 yrs + Antibody Identification for each 50000 test(5000 test in 6 months) in 5 yrs + Antigen Phenotyping for 50000 test(5000 test in 6 months)in 5 yrs) along with their all consumables to perform those tests provided the

		bidder gives the details the exact quantity of each such consumable required to perform these tests.

Name of Equipment: - Fully Automated Column Agglutination Technology		
SI. No	**Technical Specification as per tender**	**Proposed Amendment**
1	Fully Automated Immuno Haematology Analyzer based on column on Column Agglutination Technology (CAT) for cross Mtching. Antibody screening and identification on Anti Human Globulin's (Coomb's) and enzyme phase, blood grouping. Weak D and partial D typing and rare Antigen phenotype.	No Change
2	The analyzer should be capable to do all Immunohaematology test like blood grouping, antigen phenotype (including Weak D), antibody screening & identification of Compatibility testing simultaneously.	No Change
3	Automated identification of sample tubes, cards, Reagent vials and tests cells (Full positive identification with control of lot numbers and expiry date of the reagents) barcode.	No Change
4	It should have true STAT facility and sample oriented processing.	No Change
5	It should have loading capacity for at least 40 to 100 cards or 18 to 25 reagents red cells.	It should have loading capacity for at least 40 to 100 cards or 10 to 25 reagents red cells.
6	The system should have flexible sample tube type loading.	No Change
7	On-board cooling facility for cells Compulsory. On board cooling facility for Diluent - optional.	No Change
8	The instrument should contain 2 separate Centrifuges with minimum configuration time of 5 mins.	The instrument should contain 1 or 2 Centrifuges with prefixed centrifugation time.
9	It should have the facility of random and continuous loading of samples and reagents.	No Change
10	Functions performed automatically: Full positive identification, Cell suspensions, agitation of red cells, pipetting, incubation, centrifugation, reading and interpretation.	No Change
11	The system should perform single unit Cross Match by using only 1 column or reagents without wasting other column.	No Change
12	The system should have the facility of titration test with automatics serial dilution.	No Change
13	Able to perform different kind of tests including specialized tests like single rare antigens, partial Rh D, Weak D etc.	No Change
14	The instrument should have auto reflexing mode.	No Change
15	The instrument should have feature of integrated process control for complete traceability for each and every steps performed by the instrument during performing a test and provide report for the same.	No Change
16	Dual cell population/Mixed field reaction is detectable and displayed.	No Change
17	System shall have the access to sample during operation with a ability to add or remove the sample from the system.	No Change
18	It should have the facility of LIS Connectivity.	No Change
19	It should have the facility of backup.	No Change
20	It should have the facility of cross checking of previous results.	No Change

21	It should have the facility to start of test after loading of the sample.	No Change
22	Rapid and accurate reading of reaction in the card, reagents by CCD Color cameras with color images. Images storage of processed cards, reagents and results.	No Change
23	It should have the feature of liquid level detection, sample clot detection, bubble detection and low level notification.	No Change
24	The instrument should be USFDA (510 K)/ European CE (issued by notified body)	No Change
25	Company should have service person in Patna.	No Change
26	**To be provided as a start-up kit/ Reagent free of cost at the time of installation**	No Change
	(1) Blood Grouping Test Forward-5000 test (6 months expiry)	No Change
	(2) Weak D (Du test)- 200 test	No Change
	(3) Cross Matching- 5000 (6 months expiry)	No Change
	(4) Antibody Screening- pooled O cell and 3 cell pannel each100 test (Expiry 20 to 25 days)	No Change
	5. Antibody Identification- 1000 test	5. Antibody Identification- 200 test
	6.Antigen Phenotyping-(RH & Kell)500 test	6.Antigen Phenotyping-(RH & Kell)200 test
27	Cost of above mentioned kit /reagents and other Reagents (Cleaner/Washer/Diluent /Kits /Calibrator, QCs (Positive control and Negative control required daily) /Tips required /Any other accessory required for the above parameters according to the mentioned number of tests must be quoted in Financial Bid and the rate will be frozen for 5 years, the Contract for which may be extended further but not later than further five years with mutual consent. . L-1 will be decided on considering unit price of the equipment and Cost of test (Blood Grouping test Forward for 100000 test + weak D (Du) for 4000 test + Cross matching for 100000 test + Antibody Screening pooled O cell and 3 cell panel each for 200 test + Antibody Identification for each their all consumables to perform those tests	Cost of above-mentioned test /reagents and other Reagents (Cleaner/Washer/Diluent /Tests /Calibrator, QCs (Positive control and Negative control required daily) /Tips required /Any other accessory required for the above parameters 100000 test + Antigen Phenotyping for 100000 test) along with according to the mentioned number of tests must be quoted in Financial Bid and the rate will be frozen for 5 years, the Contract for which may be extended further but not later than further five years with mutual consent. L-1 will be decided on considering unit price of the equipment and Cost of test in 5yrs,(Blood Grouping test Forward for 100000 test(10000 tests in 6 months) in 5yrs+ weak D (Du) for 4000 test(400 test in 6 month) in 5yrs + Cross matching for 100000 test(10000 tests in 6 months) in 5yrs + Antibody Screening pooled O cell and 3 cell panel each for 2000 test(200 test in

		6 month) + Antibody Identification for each 100000 test(10000 tests in 6 months) in 5 yrs+ Antigen Phenotyping for 100000 test (10000 tests in 6 months) in 5 yrs ,along with their all consumables to perform those tests provided the bidder gives the details the exact quantity of each such consumable required to perform these tests.