BMSICL	**Bihar Medical Services & Infrastructure Corporation Limited, 2nd & 3rd Floor, Swasthya Bhawan, Behind IGIMS, Sheikhpura, Adjacent to State Health Society, Patna 800023, Phone/Fax: +91612 2283287,+ 91612 2283288**

Corrigendum-I

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. Institutions of Bihar vide Notice Inviting Tender No.- BMSICL/2023-24/ME-329. During and after 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, who after due deliberation recommended certain amendments in the technical specification of the equipment, which are annexed as Annexure-I of this corrigendum. In order to facilitate maximum participation of bidders the tender schedule is being revised as follows:-

Tender Reference No.	**BMSICL/2023-24/ME-329**
Last date and time of submission of online bids	**15th January 2024 till 17:00 Hrs.**
Last date and time of submission of original documents of EMD, Tender Fee and Document	**16th January 2024 till 14:00 Hrs.**
Date, Time and Place of opening of Technical Bid	**16th January 2024 (at 15:00 Hrs.) on the website of https:/eproc2.bihar.gov.in in the office of BMSICL**
Date and time of opening of financial Bids	**To be announced later on https:/eproc2.bihar.gov.in**

Note:-

1. **Bidders are advised to refer to the Annexure-I of this corrigendum before submission of bid.**
2. **Those who have submitted their bids are requested to re-submit their bids in accordance with this corrigendum.**

Annexed:- as above

Sd/-
GM (Procurement)
BMSICL

Annexure-I		
Name of Equipment :- Polymerase Chain Reaction (PCR) Analyser		
Sl. No	**Technical Specification as per tender**	**Final Amendment**
1	An automated system for both PCR and post-PCR end-point analysis, using in-built Peltier based PCR machine.	No Change
2	The system should support applications including absolute and relative quantitation, multiplex-PCR allelic discrimination (SNP), melt curve analysis, pathogen detection and plus/ minus assays using an internal positive control.	No Change
3	Peltier thermal cycling for Fast-PCR as well as Standard-PCR run available in the same block. 40 cycles in less than 40 minutes as well as Standard-PCR run of 40 cycles in less than two hours.	No Change
4	The system should have temperature range of 4-100 degrees C with peak block ramp rate for heating as well as cooling exceeding 4degrees C /second.	No Change
5	Reaction volume should be approximately in the range of 10-30 µL and can run the templates from different sources simultaneously.	No Change
6	The system should support micro well plates, individual tubes and 8-tube strips.	No Change
7	The system should provide Touch Screen LCD feature to avoid dependency on computer for operation. However, it should also be possible to use a computer for system control, operation, analysis and net-working of multiple system.	The System Should provide Touch Screen LCD Feature or Desktop/Laptop for System Control, operation, analysis and net-working of multiple system.
8	Instrument should be supplied with a separate Desktop.	No Change
9	Remote monitoring to analyse data by online web-browser based software or cloud-based data access browser should be available.	No Change
10	USB port for data export to Power point, Excel or JPEG formats should be present.	No Change
11	The system should be complete with licensed software's for designing probes and primers.	No Change
12	System should be capable of operating in test development and IVD modes with enhanced security to enable compliance with regulations.	No Change

13	It should be an open system to use reagents from any manufacturer.	No Change
14	System should be calibrated for common dyes of broader wavelength excitation and emission spectrum.	No Change
15	Excitation Light source –Laser / LED.	No Change
16	Change of position, block or chemistry should not require calibration or tools.	No Change
17	The system should be capable of operating at ambient temperatures of 20-30 degrees C and relative humidity of 80%.	No Change
18	Power input to be 220-240VAC, 50Hz fitted with Indian plug.	No Change
19	Compatible online UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.	No Change
20	System should have US FDA/ EUCE (Issued by notified body)	1. System should have US FDA/ EUCE (Issued by notified body) 2. CE-IVD (optional)

Name of Equipment :- Flow cytometer		
SI. No	**Technical Specification as per tender**	**Final Amendment**
1	Pre-configured flow cytometer equipped with at least three lasers including blue (488nm) and red (640nm) and violet (405nm) lasers.	Pre-configured flow cytometer equipped with at least three lasers including blue (488nm) and red (637nm -640nm) and violet (405nm) lasers.
2	Should have minimum capability of at least 10 fluorescent colours and 12 parameters. For each parameter the flow cytometer should be capable of measuring area, height and width.	1. System Should have minimum capability of at least 10 fluorescent colours and 12 parameters. 2.System should have a provision of future upgradable for more colors.(optional) 3. For each parameter the flow cytometer should be capable of measuring area,

		height and width simultaneously.
3	The excitation and collection optics of both lasers should be fixed requiring no alignment to be done by operator.	No Change
4	Should have high quality quartz flow cell.	No Change
5	Should have single tube sample loading mode, integrated and automated multi-tube loader with at least 24 tubes loading capacity as well as 48- & 96- well plate loader	Should have single tube sample loading mode, integrated and automated multi-tube loader with at least 24 tubes loading capacity well plate loader.
6	Should offer low, medium and high flow rates.	No Change
7	Should be able to acquire at least up to 1,000-10,000 events per second.	Should be able to acquire at least up to 1,000-10,000 events per second or above.
8	In The sample carryover must be ≤0.1%.	No Change
9	Minimum detectable particle size should be 0.5 Micrometre.	No Change
10	Should have compensation capability between all fluorescence channels with online as well as post-acquisition manual and auto-compensation features.	No Change
11	Should have digital signal processing with linear and log modes and dynamic range of at least 5 decades.	No Change
12	Should be operable at 220-230V and 50Hz	No Change
13	Should be capable of online and offline analysis and capabilities of quality control and validation, cell counting, viability, apoptosis analysis, cytometric bead analysis, cell cycle analysis, surface marker studies and kinetic studies.	No Change
14	The Cytometer should have bio-hazard containment system and proper waste collection and management system.	No Change
15	Compatible computer system (branded only): PC workstation with at least Core i7 or higher, 2 TB hard drive or more, DVD/CD ROM R/VV Combo Drive, at least 23-inch LCD monitor.	No Change
16	The computer system should have latest licensed windows (Professional) software and Microsoft office.	No Change
17	An additional computer system with above configuration and software for offline analysis should be provided. It should be capable of connecting to the flow cytometer.	No Change

18	One colour printer	No Change
19	Suitable branded online UPS of sufficient capacity with half hour backup for uninterrupted running of full equipment during power interruption.	No Change
20	Provide with complete essential accessories including appropriate starter kits, QC beads, and maintenance kits.	No Change
21	System should have US FDA/ EUCE (Issued by notified body)	1. System should have US FDA/ EUCE (Issued by notified body) 2. CE-IVD (optional)

Name of Equipment :- Interval Timer		
SI. No	**Technical Specification as per tender**	**Final Amendment**
1	It should be Programmable.	No Change
2	1t has maximum count up time & Down time of 23 hours 59 min 59 sec.	No Change
3	Should have large LCD display.	No Change
4	Should have easy setting.	No Change
5	Clock feature with 12/24-hour format.	No Change
6	Manufacturer should have ISO (NABCB accredited) certificate.	No Change

Name of Equipment :-Domestic Refrigerator 210 litres with Stabilizer		
SI. No	**Technical Specification as per tender**	**Final Amendment**
1	Should be a Frost-free refrigerator.	No Change
2	Should have a Capacity of 210 Litres or above.	No Change
3	Shelves shall be of Toughened glass type.	No Change
4	Should have EEC 4-star rating or above	Should have EEC 3-star rating or above
5	Should have inbuilt protection for voltage fluctuation or to be supplied with external stabilizer of adequate KVA capacity.	No Change

Name of Equipment :- Electric Needle Destroyer		
SI. No	**Technical Specification as per tender**	**Final Amendment**
	Product Quality and safety Standard certification:	
1	The quoted model should be either "USFDA approved (Device listed with registration under valid FEI number)" or "European CE certified" or equivalent BIS.	No Change
2	The quoted model should have IEC 60601 certified for Electrical safety or equivalent BIS standards.	No Change
	Manufacturer Quality standard certification:	

3	The manufacturer of the quoted product should have EN ISO 13485 certificate issued from a notified body or ICMED 13485 (with or without plus) certificate issued from certification bodies accredited by NABCB or ISO 13485 certificate issued from certification bodies accredited by NABCB/Nationally Recognized Accreditation Board under IAF MLA.	No Change
4	The quoted medical device must be registered under CDSCO and submit the license for manufacture to sale or distribute the medical device. If not registered, the acknowledgment copy of the online application for the said registration must be uploaded in the bid.	No Change
5	Should be Portable and electrical type.	No Change
6	Principle of operation should be Electro-melting type.	No Change
7	Material of the Housing /enclosure should be ABS Plastic.	No Change
8	Housing/enclosure shall be molded type and shock proof.	No Change
9	Provision to burn the needles and to cut the syringe tips shall be provided in the unit.	No Change
10	Number of needles of 1mm dia and 80mm length that can be destroyed in continuous operation of 5 minutes.	No Change
11	Transformer winding should be copper.	No Change
12	Sizes of injection needles of all kinds which can be destroyed (Dia Ranging from 0.4mm to 1.6mm (26 SWG to 14 SWG) with length 12.5mm to 80mm).	No Change
13	Power supply should be 207V to 253V,50Hz AC supply	No Change
14	Power ON/OFF switch with indicator shall be provided	No Change
15	Rated power (Watts) must be 60 watt.	No Change
16	Shall be provided with fuse and power cord of min 3m length and earthling point.	No Change

Name of Equipment :-Automated Blood Cell Counter 5 Part		
SI. No	**Technical Specification as per tender**	**Final Amendment**
	Technical Characteristics (specific to this type of device)	
1	System should be 5 part differential with absolute and percentage counts for reticulocytes and individual WBC differentials along with a typical parameter like Blast 5% &# and typical lymphocytes %&# Submission: Quoted specification seems incomplete without parameters required.	1) System should be 5 part differential without absolute and percentage counts for reticulocytes and individual WBC differentials along with a typical parameter like Blast 5% and atypical lymphocytes %.

2	24 parameters, all different WBC's should be measured directly along with added accuracy, reliability and interpretation through following advantages:	No change
	(a) Reticulocyte count # and % availability with facility to consume reagent only when reticulocyte test is ordered and not in all CBC tests and ON/OFF.	Deleted
	(b) Scatter gram and histogram for RBC as well as platelets.	(b) Scatter gram and histogram for WBC, RBC as well as platelets.
	(c) Ability to detect typical scattering due to malarial parasitic infection and accordingly flag the same. Proposed change:-24 parameters, all different WBC's should be measured directly along with optical method should be able to detect and flag samples with malarial parasite.	No change
3	Advanced, integrated self –cleaning system using not more than 6 reagents for measurement (including reticulocyte and cleaning should have off board reticulocyte reagent.	Advanced, integrated self –cleaning system using not more than 6 reagents for measurement (excluding cleaning solution).
4	On –screen patient results trending.	No change
5	Stores 5,000 test results with histograms and scatter grams	Stores 5,000 test or more results with histograms and scatter grams
6	Integrates with common practices management systems.	No change
7	Maximum sample required 100 micro liter sample size permits whole blood analysis from venous collections.	No change
8	Parameters Total leukocytes (White Blood Cells) and Differential (In absolute numbers and %) for:	No change
9	Sample Material Capillary or venous (EDTA) whole blood.	No change
10	Linearity of all parameters.	No change
11	Measuring time within 60 sec.	No change
12	System must have throughput of at least 75 samples per hour in all discrete modes.	System must have throughput of at least 60 samples per hour in all discrete modes.
13	Manual mode.	No change
14	Stat mode.	Stat mode should be optional.
15	Pre-diluted mode and whole blood mode.	No change
	2. User's Interface	No change
	Printer, Keyboard, barcode reader, PC.	No change
	3. Software and/or standard of communication (where ever required)- NA	No change

3. PHYSICAL CHARACTERISTICS			
1	Dimensions (metric)	NA	No change
2	Weight (lbs, kg)	NA	No change
3	Noise (in dBA)	NA	No change
4	Heat dissipation	Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through a cooling mechanism.	No change
5	Mobility, portability	Stationary lab Installation.	No change
4. ENERGY SOURCE (electricity, PS, solar, gas, water, C02…)			No change
1	Power Requirements	Recharging unit: Input voltage- single/3-phase.	No change
2	Battery operated	No	No change
3	Tolerance (to variations, shutdowns)	-0.1	No change
			No change
4	Pressure gauge	NA	No change
5	Operating temperature	Analyzer: 4-50C degree (39-122 F degree).	Analyzer: 15-30 degree C or above
		Capillary samples from finger stick: 18-25 C degree (67-77 F degree).	Deleted
6	Protection	N/A	No change
7	Power consumption	Upto 500VA	Deleted
5. ACCESSORIES, SPARE PARTS, CONSUMABLES			
1	Accessories (mandatory, standard, optional); Spare parts (main ones); Consumables/reagents (open closed system)	1) 2D- Barcode Scanner2) Reagent Consumption chart for 50 tests per day (including two times ON/OFF) should be provided and price evaluation will be done on the basis of cost of equipment + cost of Reagent for a period of 10 years considering 18250 tests in one year @ 50test/day). The finalization of L-1 will be calculated on the basis of price quoted by bidder in financial bid sheet as unit cost of machine (one	No Change

		times) and reagent cost for 182500 test in ten yrs.3) Closed System rates to be closed for all test.4) Online UPS System for 30 minutes back up.	
6. ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS			
1	Atmosphere/Ambiance (air conditioning, humidity, dust….)	1) Operating condition: Capable of operating continuously in ambient temperature of 10 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances.2) Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%	1. Operating condition: Capable of operating continuously in ambienttemperature of 10 to 35 deg C and relative humidity of 15 to 90% in ideal circumstances. 2. Storage condition: Capableof being storedcontinuously in room temperature and relativehumidity of 15 to 90%
2	User's care, Cleaning, Disinfection & Sterility issues	1) Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover. 2) Sterilization not required.	No Change
7. STANDARDS AND SAFETY			
1	Certificates (pre-market, sanitary); Performance and safety standards (specific to the device type); Local and/ or international	1. Should be USFDA & CE (with notified body) approved product.2. Manufacturer and Supplier should have ISO 13485/US(FDA)/EU(CE) certification for quality standards.3. Shall meet internationally recognized for Electromagnetic Compatibility (EMC) for electro-medical	1. Should be USFDA & CE (with notified body) approved product. 2. Manufacturer and Supplier should have ISO 13485certification. 3. Shall meet internationally recognized for Electromagnetic Compatibility (EMC) for electro-medical equipment: 61326-1

		equipment: 61326-1.4. Certified to be compliant with IEC 61010-1, IEC 61010-2-281, 61010-2-101 for safety.	OR Certified to be compliant with IEC 61010-1, IEC 61010-2-281, 61010-2-101 for safety.
2	Local and/or international	Manufacturer/Supplier should have ISO certificate for quality standard.	No change
8. TRAINING AND INSTALLATION			
1	Pre-installation requirements: nature, values, quality, tolerance	1) Availability of 5 amp socket;2) Safety and operation check before handover;	No change
2	Requirements for sign-off	Certificate of calibration and inspection from the manufacturer.	No change
3	Training of staff (medical, paramedical, technicians)	1) Training of users on operation and basic maintenance; 2) Advanced maintenance tasks required shall be documented;	No change