Notice Inviting e-Tender

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Supply and Commissioning of Medical equipment for 02 (two) new Government Medical College & Hospital, Dept. Of Microbiology

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-154/2023 **Dated- 31.03.2023**

AMENDMENT-I
REVISED TECHNICAL SPECIFICATION

Item No.	Item Name	Technical Specification
Item No. 1	Elisa Reader & washer	• Compliance to certification (US FDA/CE – IVD certification will be accepted only when the Indian standards/certification like BIS/CDSO/AERB are not available): CE - IVD • Type of Reading: Plate • Computer System : The system supplied with compatible OS and analysis software • Elisa Reader and Washer shall be adjustable for different micro plate geometric : Yes • Availability of external printer : Yes Or higher • Keyboard : External • RS 232 Port : Yes • USB Port : Yes • Memory Storage capacity for test results with patient ID : More than 5000 • Plate reading and data analysis software provided : Yes Or higher • Warranty: 2 years • Detection Method : Absorbance • Wavelength range in nm : 400 - 750 • Light Source provided : LED • Standard Filter (provided):

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		405,450,492,550,630 nm with provision to add three more Filters • Reading Speed: 96 wells/ 30 seconds • Dynamic range in OD : 0 to 4.0 • Resolution: 0.001 • OD Accuracy : <1 % at 2 OD • Photometric accuracy : + 3% or better • OD repeatability : < 0.5 % at 2.0 OD typical • Number of samples at a time(minimum) : 96 • Capability of reading maximum number of assay / Test per batch : 8-12 • Read Method/Mode : End point, Kinetic and area scanning under computer control • Curve fit Modes : LIN/LIN,LIN/LOG,LOG/LOG, Auto curve • Easy access to 8 position filter wheel : Yes Or higher • Wash cycle : 0-6 • Soak time in hours : 6.0 Or lower • Fluid delivery Method : Internal positive displacement vacuum/ Submersible pump • Washer Manifold : 8 or 12 way manifold • Operating modes : L-J Chart, CV evolution, OD evolution, west guards • Provision for port for connecting external printer : Mandatory • variable volume Micropipette (reputed company) should be supplied : Vol. Range Accuracy No required (10-100) ul 0.6% 1 (100-1000) ul 0.6% 1 (1-10) ul 1% 1 • Optical Density for reader : 0-4.00
Item No. 2	Automated blood culture system	The system should be a fully automated, walk away system capable of culture from blood, platelet and sterile body fluids. The system should be based on fluorescence / colorimetric technology for interpretation of results. The system should have 40 cells or more and should be a modular model which can be upgraded as per requirement of the Lab in the future. Media should be able to detect bacteria and yeast/fungal, aerobic and anaerobic organism from the blood, platelet and sterile body fluids with additional antimicrobial neutralization substances. The system should have the capability to process samples of adult and paediatric patients and have dedicated media for paediatric and adult samples. The system should have the capability of continuous monitoring of the clinical samples. The culture media should have additional antibiotic neutralization substances to minimize chances of false

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		negatives due to high antibiotics in specimens and have minimal time detection of organisms. The system should have the capability of analyzing and detection of delayed entry of specimens at growth, stationary and decline stage (both log & lag Phase). The media bottles should be unbreakable and ease of disposal as per the recommendation from Occupational Safety and Health Administration, U.S.A. The system should be maintenance free without any need for regular calibrations, controls or standards run by the user. The system should be leak proof and non- invasive to avoid contamination of equipment and the environment. The system should be supplied with a complete system with all accessories The firm should provide complete installation and training with that they should have a strong support system to help in the future as per the need. Appropriate KVA of UPS must be supplied with the machine Minimum 100 bottles must be supplied with the system as a starter kit. Warranty: 2 year Certification: CE (4 DIGIT Notified body certified / UK Cert / US FDA / BIS
Item No. 3	Real-time PCR	Real Time PCR System for measuring Real-time amplification of DNA/RNA from purified samples, application include Quantification assays, Qualitative assays, SNP, HRM, Gene Expression, Any published protocol or chemistry should be reproduced. System should have a port for USB Drive for uploading and downloading data and programs. Dedicated Peltier-based Real time Thermal cycling system, 96-well block can accommodates both 96 well PCR plates as well as 8-Tube Strips with clear caps. System should have a temperature accuracy of ±0.2 °C and well to well Temperature Uniformity of ±0.4 °C System should have Gradient function for the temperature programmable of 20 °C gradient range. System should allow Optimum reaction volumes of 5µl to 50µl or more System should have sample ramp rate more than 4 °C while heating and less than 2.2°C while cooling. System to provide on line Cycle by Cycle monitoring with continuous display of readings for Fluorescence, Temperature changes and progression of amplification and detection simultaneously on all 96 wells on the plate without any moving parts. RT PCR system should have fiber optics for high accuracy and easy multiplexing on probed assays. System should have individual well to well excitation and emission for better sensitivity for capturing the

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		signals without any edge effects. System should have broad range high-intensity white LED as a excitation source Working Programmable range 37 to 99 °C, Sensitivity from 1 copy detection and dynamic range of 10 orders of magnitude. System should be compatible with all kind of chemistry Syber green and Hydrolysis probe and compatible with all kind of kits in market. Should be open system for both reagents & disposable plastic consumables. System should use cooled CCD camera/ CMOS / Photodiode for detection without any moving detectors or scanning detectors Instrument filters should be divided based on the wavelength starting from 450 to 750 nm. System should have a minimum of eight filters, Four Excitation filters (450 to 75 nm) and Four Emission filters (450 to 750 nm) to cover majority of the commercially available dyes Multiplexing capacity: true 5 colors or more multiplex analysis without any passive reference dye. System should be calibrated for Detection Dyes: SYBR, FAM, VIC, Hex, Texas Red, Rox and Cy5. Any new dyes should be used within the filter settings. System should be free of passive reference dye. System should be capable of Simultaneous data acquisition for all positions in 10–1000 ms (dynamic mode) Fast run time, Runtime < 40 min for 3-step 40 cycles PCR Should have preferably 10 inch colored LCD touch Screen display for smooth operation while standalone usage and online fluorescence display. The real time PCR software should allow the user to do the analysis of all type of application like a) Absolute quantitation b) Advanced Relative quantitation c) Multiplex-PCR allelic discrimination (SNP) d) Tm Calling (Melt curve Analysis – Sybr) e) Endpoint Genotyping f) Qualitative Gene detection g) High Resolution Melting curve analysis (HRM) for mutation studies h) Pathogen detection and plus/minus assay. Necessary control / QC kits for installation should be supplied along with instruments Software should be compatible with Win 7 to Win 10 with future up gradation RT PCR software should be of multi user installation facility and allow the user to design the experiment or plate layout conveniently. Software should allow to import / export formats like Txt

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		export, Charts: Data and image. System software should support remote access for trouble shooting. Software should have the provision to use barcode scanner and import / export option for plating layout to reduce the time in plating layout. Should provide online UPS of appropriate capacity Should provide Equipment user list in India A laptop/ desktop PC with good configuration should be supplied Should guarantee availability of spares and service for minimum 7 Years Quality and standard certification: CE-IVD or US FDA or BIS The equipment should have ICMR recommendation