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. Medical Colleges and Hospitals of Bihar vide Notice Inviting Tender No.- BMSICL/2018-19/ME-117. A TSC meeting was held on 05.02.2019 during after which various suggestions were received from prospective bidders for amendment in technical specification and accordingly some amendment have been made as per the 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/2018-19/ME-117**
Date and time for downloading of bid document	**Up to 27th March 2019 till 17:00 Hrs.**
Last date and time of submission of online bids	**28th March 2019 till 17:00 Hrs.**
Last date and time of submission of original documents of EMD, Tender Fee and Document.	**29th March 2019 till 14:00 Hrs.**
Date, Time and Place of opening of Technical Bid	**29th March 2019 (at 15:00 Hrs.) on the website of www.eproc.bihar.gov.inin the office of BMSICL**
Date and time of opening of financial Bids	**To be announced later on www.eproc.bihar.gov.in**

Note:-Please refer to the **Annexure-I (pages-05)** of this corrigendum before submission of bid.

Sd/-

GM (Procurement)

BMSICL

Annexure-A

Name of Equipment:-TMT Machine		
Sl no.	**Technical Specification before amendments**	**Technical Specification after Amendments**
1	Should be PC based cardiac workstation simultaneously 12 lead acquisition cambines resting & exercise ECG in one unit.	No change
2	Should have radio frequency based wireless connectivity with Acquisition module to acquire diagnostic quality ECG data.	Should have radio frequency based wireless connectivity/ wired cable with Acquisition module to acquire diagnostic quality ECG data.
3	Each wire of patient cable set should be detachable, so that each cable can be changeable in case of one cable faulty.	No change
4	The ECG acquisition sampling rate should be 1,000 Samples/seconds channel or more.	No change
5	System should have 22" or above display for easy access.	No change
6	Should have facility to Review, edit an add ECG from full discloser storage post-exam.	No change
7	Should have facility to hide Zoom ECG, context ECG view and Trends at any time.	No change
8	System should have 50mm sweep speed selection for ECG display.	No change
9	Should have full disclosure of all 12 leads for beat to beat analysis.	No change
10	The final report should include information on blood pressure, heart rat MET,s treadmill speed/Grade, ST trends relating to stage wise & recovery phase and duke treadmill score etc.	No change

11	Report should be user-definable and can be selectable at final step of reporting.	No change
12	Automatic calculation & display of METs.	No change
13	System should support Time and METs ramped protocol.	No change
14	System should show recovery elapsed time in %.	No change
15	System should support left to right work flow.	No change
16	System should provide online printing of ECG prints on High Quality Thermal printer manually and automatically during stress testing.	No change
17	Treadmill soft stop option for stopping the treadmill after 20 second in recovery mode.	No change
18	Facility to get system generated auto statement report.	No change
19	System should support editing of final report in review phase.	No change
20	System should support user defined ST measurement points.	No change
21	System should have special filters to reduce noise artefacts, motion artefacts, baseline artefacts during stress test.	No change
22	System should be capable to store full disclosure ECG data for later review using page review mode.	No change
23	System should support multi login password protected access.	No change
24	System should be supplied with US-FDA approved stress automatic BP measurement device with interface cable to measure automatically the patient NIBP during stress test per the programming done at stress system.	No change

25	The display screen must be 22” or more and it should support. 1900x1200 or 1900 x1080 resolution and it should display following parameters.	No change
	· Exercise time.	No change
	· Target and max HR with % of target achievement.	No change
	· HR & METS trends.	No change
	· NIBP trends.	No change
	· ST level trends.	No change
	· Zoomed ECG with reference trace in background.	No change
	· ST profile with reference level in background.	No change
	· Context view of complete study from pre-exercise in recovery.	No change
	· 3-6-12 lead real time ECG rhythm.	No change
	· 12 lead average display.	No change
	· Speed of treadmill.	No change
26	The following items must be provided along with the above stress testing software and automatic BP system.	No change
27	Should have following performance characteristics.	No change
	· Defibrillation protected.	No change
	· Input impedance :< 100 Mohm.	No change
	· CMRR:>100 dB.	No change
28	should have following Transmission options.	No change
	· Network	No change
	· USB	No change
	· XML	No change
	· PDF	No change

	· DICOM (Bi-Directional)	No change
	PC-	No change
	· Window 7 professional	Latest windows suitable for the system.
	· I3 or better processor	No change
	· 4 GB RAM	No change
	· 500 GB Hard Disk	No change
	· Two serial port.	No change
	· Minimum 4 USB port.	No change
	· 24” LCD Monitor.	No change
	Trolley.	No change
	· Trolley must be of good quality and specially designed for stress testing system.	No change
	· Must be on wheel.	No change
	· Must have facility to fix the LCD Monitor.	No change
	Treadmill-	No change
	· Should be heavy duty medical treadmill.	No change
	· Should have stop/start button for emergency stop.	No change
	· Should have zero start.	No change
	· Should have running surface of 16 cm x 140cm x 51cm)	No change
	· Should have elevation range of 0% to 25%.	No change
	· Should have speed range of 0.1 to 12.4km/h.	No change
	· Should have user weight capacity of 227kg or higher.	No change
	· Walking surface must be a double sided polished for prolonged product life span.	No change

	· Emergency stop button must have the ability to be located in the location of choice by the end user. This ESB must be a standard feature of the treadmill.	No change
	· Hand rails must be available as a standard feature with optional removable hand-rails, or nuclear handrails for the advancement of a nuclear camera to the front of the patient while still on the treadmill.	No change
	· Remote keypad operation should allow for the following: Treadmill start, Treadmill stop, increase/decrease elevation, increase/decrease speed.	No change
	Should have following safety features.	No change
	Electrical Safety	No change
	· Safety class: I	No change
	· Type protection: CF	No change
	· ANSI/AAMI EC11-1991, Diagnostic Electrocardiograph Devices.	No change
	· IEC 60601-1: 1988, Medical Electrical Equipment. Part1: General Requirements for safety.	No change
	· Including Amendment 1:1991-11 and Amendment 2:1995-03.	No change
	· IEC 60601-2-25:1993, Medical Electrical Equipment. Part 2 particular Requirements of the.	No change
	· Safety of Electrocardiographs, including 1:1999-05.	No change
	· Council directive 93/42/EEC of 14 June 1993 concerning medical devices.(Medical Device)	No change
	· Directive.)	No change
	· IEC 60601-1-22001-09, Medical Electrical Equipment-part 1:General requirements for safety.	No change
	· Subpart 2. Collateral standard: Electromagnetic compatibility –Requirements and tests.	No change

	Standards of compliance	No change
	· CE Marked (Class IIa)	No change
	· CAN/CSA Approved.	No change
	· UL Approved	No change
	· FDA Approved.	Removed
	· IEC 529 IP code IPXO	No change
	Environmental	No change
	· Operating temperature:+10 to + 40 deg. C (+50 to +104 deg.F)	No change
	· Storage temperature:-40 to +70 deg. C (-40 to + 158 deg.F)	No change
	· Operating relative humidity: 10% to 95%, non condensing.	No change
	· Storage relative humidity: 10% to 95%, non-condensing.	No change
	· Operation/ storage atmospheric pressure: 500 hPa to 1060 hPa.	No change
Note: Complete system should be US FDA approved		
Name of Equipment:-High End Echo Machine		
1	a. Light weight ECHO machine system should have 17 inch or more flat panal type TFT / LCD or better technology monitor.	No change
	b. The system should have multiple line acquisition capable of achieving high frame rates of 2000 frames or Higher.	No change

2	Should have TEE facility.	No change
3	Probes :-	
	1. Trans-thoracic 3D/4D Adult Probe – 01.	No Change
	2. Trans-thoracic: 2D Paediatric Probe – 01.	No Change
	3. Standard TEE 3D Probe	No change
	4.Trans-thoracic 2D Adult Probe-01	No change
4	a. Sequential measurement of IA/LV volume and LVEF measurement (Auto mode)	No Change
	b. RV volume and function measurement package.	No Change
	c. Mitral Valve Assessment package	No Change
	d. Offline anatomical M-mode with single cardiac beat acquisition	No Change
5	CD/DVD R/W, USB + Compatible Printer	No Change
6	DICOM format (configuration) facilities	No Change
7	US FDA & European CE (issued by notified body)	No change
8	2D speckle tracking Echo for strain and strain rate calculation and related facility like Tissue Tracking with Bulls eye view format	No change
9	Dynamic stress echo package	No change
10	Additional	Latest generation High End Echo Machine with latest probes