BMSICL
www.bmsicl.gov.in
md-bmsicl-bih@nic.in
5th Floor, Biscomaun Bhavan, Gandhi maidan,
Patna 800 001 Phone: +91 612 2219634
Bihar Medical Services & Infrastructure Corp Ltd.
(A Govt. of Bihar undertaking)

## Corrigendum-2
## Tender Schedule

| | |
|---|---|
| Tender Reference No. | BMSICL/2015-16/ME-051 |
| Date and time for downloading of bid document | 16th January 2017 from 10:00 Hrs. to 27th February 2017 till 17:00 Hrs. |
| Last date and time of submission of online bids | 11th March 2017 by 17:00 Hrs. |
| Last date and time for submission of original documents of EMD and Document Fee | 15th March 2017 until 14:00 Hrs. |
| Date, Time and Place of opening of Technical Bid | 15th March 2017 until 15:00 Hrs on the website of www.eproc.bihar.gov.in in 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 Annexure-I and financial bid sheet of this corrigendum while submitting the Bid.

Sd/-
GM (Procurement)

## Annexure-I

**(TENDER NO. -BMSIC/2016-17/ME-051)**

**ANNEXURE-I**

| Equipment- High End Echo Machine | | |
|---|---|---|
| **S.N.** | **BMSICL Existing Specification** | **Amendment Specification** |
| 1 | Probes for 2D / 3D / 4D Imaging facility, multi array probe technology for phase array linear array and adult and pediatric multi plain trans-esophageal /trans thoracic Echocardiography transducer, should also have matrics or equivalent technologies. a. Transthoracic: Adult-1, Paediatric-1, Neonatal-1. | Probes should also have matrics or equivalent technologies for 3D / 4D Imaging facility :- Requirement Trans-thoracic 3D/4D Adult Probe-01 **Note**- 2D/Peadiatric / Neonatal andTrans esophageal Probes should be deleted . |
| 2 | Point 2 | Stress ECHO Package to be deleated from the specification. |
| 3 | Point 3 | Automated Functional Imaging with facility for speckle tracking Echo to be deleted from the specification. |
| 4 | Point4 | Tissue Doppler Imaging to be deleted from the specification. |
| 5 | Advanced Digital Colour Doppler Echocardiography System must be BIS / US FDA / CE approved. | 'FDA and CE' Approved (Essential Crieteria) |
| 6 | | Offline anatomical M Mode with single cardiac beat acquisition (should be added) |
| 7 | | CD/DVD R/W (should be added) |
| 8 | | Mitral Valve Assessment(should be added) |
| 9 | | DICOM(should be added) |
| 10 | | RV volume and function measurement package (should be added) |
| **Equipment Name- MID END ECHO MACHINE** | | |
| 1 | Probes for 2D / 3D / 4D Imaging facility, multi array probe technology for phase array linear array and adult and pediatric multi plain trans-esophageal /trans thoracic Echocardiography transducer, should also.(Tran-esophageal: Adult-1, Paediatric -1) | **Probes**:- for 2D Imaging facility. Trans-thothoracic Probes 1)- Adult-01, Paediatric Probe-01, Neonatal Probe-01, Non-imaging/Pencil Probe-01 , 2)-Trans Eso-phageal:- Adult Probe-01 3)-Vascular Probe-01. |
| 2 | A.F.I. – Automated Functional Imaging with facility for 2D & 3D speckle tracking Echo and related facility like Tissue Tracking etc. | A.F.I. – Automated Functional Imaging with facility for 2D speckle tracking Echo and related facility like Tissue Tracking |
| 3 | Automatic LA /LV volume & LVEF = measurement facility. | Automatic LA /LV volume & LVEF = measurement facility should be deleted from the specification. |
| 4 | | Tissue Doppler imaging/ Tissue Velocity Imaging (TDI/TVI) Package with Q-Analysis ( Latest Version) (should be added) Trans esophageal Echocardiology Paqckage (should be added) |
| 5 | Colour Doppler Echocardiography System must be BIS / US FDA / CE approved. | 'FDA and CE' Approved (Essential Crieteria) |
| **Holter Machine with Recorder** | | |
| 1 | | Holter system provides for 24/48 hours of continuous ECG recording and analysing for detecting heart function abnormalities which may otherwise go undetected. The system should support 3 channel and 12 channel recorders. (should be added) |

| | | |
|---|---|---|
| 2 | | Should automatically detect and quantify different ventricular and supraventricular events, including atrial events (atrial fibrillation, isolated prematures, pairs, bigeminy, trigeminy, runs, pauses, bradycardia and tachycardia) and ventricular events (isolated ectopics, prematureectopics, bigeminy, trigeminy, couplets, triplets, and runs). (should be added) |
| 3 | | Should analyse three leads of ST segments with ST episode reporting and Heart rate variability on time and frequency domain. (should be added) |
| 4 | | Should have the Risk assessment tools T-wave alternans and Heart Rate Turbulence because it helps clinicians to quickly identity Patients with SCD (Sudden Cardiac Death).(should be added) |
| 5 | | Should acquire simultaneous ECG using 7-lead patient cable for 3 channel data and 10-lead patient cable for 12 channel data. (should be added) |
| 6 | | should have sampling rate of minimum 256 SPS.(should be added) |
| 7 | | Trend Graphs -HR, RR interval, ST etc.(should be added) |
| 8 | | Should weigh no more than 50 grams without battery. Should have bluetooth connectivity to view the live ECG in PC. (should be added) |
| 9 | | Software facility for pacemaker analysis .(should be added) |
| 10 | | System Should be CE / US FDA approved.(should be added) |
| | **Equipment Name-TMT MACHINE** | |
| 1 | | The system must support 3, 6, 12, and 15-lead acquisition, display and reporting.(should be added) |
| 2 | | All leads configurations should be displayed on-screen and printable in final reports(should be added) |
| 3 | | The system must provide medians in post-test review to view individual QRS complexes time synchronized to leads(should be added) |
| 4 | | The system must provide interpretative tools for resting ECG(should be added) |
| 5 | | The system must provide risk assessment tools like Stroke and Duke Treadmill Score(should be added) |
| 6 | | The system must provide risk assessment tools for SCD like – T-Wave Alternans<br>1) T Wave Alternans: It helps clinicians to quickly identity Patients with SCD (Sudden Cardiac Death)<br>2) ST / HR Hysterisis: Graphic display of another measure of ischemia, More sensitive than ST Slope, includes recovery, more sensitive in women. Raw data provided in test summary<br>3) Stress Interpretation Software.(should be added) |
| 7 | | The system must be able to reanalyze ECG procedure data, reset measurement points and recalculate S, T segment values based on new points(should be added) |

| | | |
|---|---|---|
| 8 | | The acquistion module should be digital. The system must provide a detachable patient ECG acquisition module with replaceable patient leadwires. Acquistion and digitization at the patient itself ensure the signal Is immune to the environmental noise(should be added) |
| 9 | | The system to support DICOM formatted report export (Should be added) |
| 10 | | The system should work on User suppliable PC which runs on Windows platform with min 4GB HD and 1 GB RAM (should be added) |
| 11 | | Software base should have CE /US FDA Approval.(should be added) |
| 12 | | Treadmill should have 60-inch walking surface with Two stopping Modes (should be added) |
| 13 | | Speed range of the Treadmill should be 0 to 13.5 mph (should be added) |
| 14 | | Should have facility for use of different protocols-Bruce/Modified Bruce. (should be added) |
| 15 | | System should be CE or USA FDA Approved (should be added) |