



**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-II

Bihar Medical Services and Infrastructure Corporation Limited (BMSICL) had invited E-Bids from the interested parties for the procurement, rate contract, supply & installation of Medical equipment vide Tender No.-BMSICL/2022-23/ME-285. 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. In order to facilitate maximum participation of bidders tender schedule is being revised as following:-

Tender Reference No.	BMSICL/2022-23/ME-285
Date and time for downloading of bid document	Up to 07th November 2022 till 17:00 Hrs.
Last date and time of submission of online bids	08th November 2022 till 17:00 Hrs.
Last date and time of submission of original documents of EMD, Tender Fee and Document.	09th November 2022 till 14:00 Hrs.
Date, Time and Place of opening of Technical Bid	09th November 2022 (at 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

**GM (Procurement)
BMSICL**

Annexure-I

Name of Equipment:-Ultrasound Machine Portable		
Sl.no.	Technical Specifications as per tender	Proposed Amendment
1	The Portable DICOM compatible Ultrasound machine is useful to observe structures within the body for diagnostic purposes. It is used for vascular, abdominal, obstetric and gynecological studies.	No Change
2	Should be able to operate both on AC and battery.	No Change
3	It should have in built full alphanumeric keyboard and track ball.	It should have in built full alphanumeric keyboard and track ball / touch screen/touch pad
4	Latest technology all-digital portable Ultrasound System suitable for adult & pediatric ultrasound	No Change
5	Should have broad band frequency Transducer Technology with three probe active ports at a time.	Should have broad band frequency Transducer Technology with standard two active ports. The machine should have facility to attach three probes at a time through connector or active port.
6	Should have B mode, M-mode,	No Change
7	Should have inbuilt rechargeable Battery and the system should operate for at least 60 minutes on battery	No Change
8	Should have integrated display screen size at least 10".	No Change
9	Should have standard calculation package.	No Change
10	Should have image storage facility for at least 1000 images.	No Change
11	Sorting of data base with patient name and date should be possible.	No Change
12	USB port connectivity to printer or computer.	No Change
13	Facility for storage on CDR/DVD/USB should be available. Data should be Transferable through the network to any other workstation.	No Change
14	Should have cineol memory. Power Doppler	No Change
15	Should be light weight system weighing less than 10kg.	No Change
16	Transducers: (1) Convex probe with 2-5 MHz +/- 1MHz (2) Linear probe with 5-12 MHz +/- 1MHz Optional- (i) Echocardiography probe 2-4 MHz +/- 1MHz (ii) End cavitary probe with 3-10 MHz +/- 1MHz (ii) Microconvex probe 2-5 MHz.	Transducers: (1) Convex probe with 2-5 MHz +/- 1MHz (2) Linear probe with 5-12 MHz +/- 1MHz Optional- (i) Echocardiography probe 2-4 MHz +/- 1MHz (ii) Endocavitary probe with 3-10 MHz +/- 1MHz (iii) Microconvex probe 2-7 MHz +/- 1MHz

17	System should also have the capability to be upgraded advance software.	No Change
18	Imaging modes of Real time 2D, Color Doppler, Pulsed wave Doppler, Power (energy) Doppler & CW (Continuous Wave) should be available.	No Change
19	Should work on 220Vac +/- 10% 50Hz power supply.	No Change
20	Should supply online UPS of suitable capacity with 30 minutes' backup.	No Change
21	US FDA / European CE (issued by a notified body) Approved model should be offered.	No Change
22	The machine should be trolley mounted	The machine should have be trolley/cart mounted
23	System should have Cart with 3 active probe sorts.	Deleted
24	<p>The bidders have to quote, the unit price of Probe mentioned in specification for ultrasound machine (Portable), separately in the price bid. The L1 bidder will be decided on considering unit price of machine (which means unit price of the machine along with the price of Convex Probe & Linear Probe) + CMC value as per bid clause + unit Price of Probes (which means price of Convex Probe, Linear Probe, Echocardiography Probe, End cavitary Probe and Micro Convex Probe). The bidder has to supply the optional probe as per the requirement. The prices of probe shall remain fixed till the period of CMC.</p>	<p>The bidders have to quote, the unit price of Probe mentioned in specification for ultrasound machine (Portable), separately in the price bid. The L1 bidder will be decided on considering unit price of machine (which means unit price of the machine including the price of Convex Probe & Linear Probe) + CMC value as per bid clause + unit Price of Probes (which means price of Convex Probe, Linear Probe, Echocardiography Probe, End cavitary Probe and Micro Convex Probe). The bidder has to supply the optional probe as well as CMC services of the machine as per requirement. The price of all above mentioned types of probes shall remain fixed for 10 years.</p>

Name of Equipment:-Ultrasound Machine with Colour Doppler		
Sl.no.	Technical Specifications as per tender	Proposed Amendment
1	The system should be state-of-the-art model and all digital beam former for superior image quality with integrated Trolley/ Cart	No Change
2	The system should have General Sonographic.	No Change
3	Should have 17" or more high resolution LED/LCD monitor with tilt and swivel facility and should be able to view in all angles and all light conditions	No Change
4	Should have three active ports, switchable electronically for Probe selection.	No Change
5	Should have an alpha-numeric keyboard with easy access scan controls and track ball.	No Change
6	Should have independently selectable gain control.	No Change
7	Should have 2D, M-Mode, Power Doppler, Pulsed Wave Doppler, Color Doppler and Continuous Wave (CW).	No Change
8	Triplex imaging display modes on all probes	No Change
9	Should have Tissue Harmonic Imaging.	No Change
10	Should have colour flow imaging	No Change
11	The system should have extensive calculation software package for General ultra sonographic imaging, and obstetrics and gynecology including NT measurement.	No Change
12	The system should have provision for measurement and calculation of distance, area, volume and circumferences on the image.	No Change
13	The system should have dedicated reporting pages for all the applications.	No Change
14	Should have patient reporting page with embedded images.	No Change
15	The system should have minimum 256 grey scales or more.	No Change
16	The system should have facility to store images in a hard disk of capacity at least 500GB.	No Change
17	Unit should function with 200-240V AC, 50 Hz input power supply.	No Change
18	Should provide internal DVD writer	Should provide internal DVD writer or USB port for data transfer

19	Should be supplied with thermal printer and pack of thermal paper and the units should have an option to connect external printer. Extra 12 thermal rolls should be supplied.	No Change
20	DICOM output facility without additional Hardware or software.	No Change
21	Should supply pure sine online UPS of sufficient capacity with minimum 30 minutes backup to connect all the equipment's supplied.	No Change
22	US FDA/ European CE (Issued by a notified body) approved Model should be offered.	US FDA/ European CE (Issued by a notified body) approved Model should be offered.
23	Should have a convex probe of 2-5 MHz, linear probe of 5-12 MHzOptional:- (i) Endocavitary of 3-10 MHzProbe (ii) Echocardiography probe of 2-4MHz . (iii) Micro Convex Probe	Should have a convex probe of 2-5 MHz +/- 1MHz , linear probe of 5-12 MHz +/- 1MHz Optional:- (i) Endocavitary of 3-10 MHz +/- 1MHz Probe (ii) Echocardiography probe of 2-4 +/- 1MHz MHz . (iii) Micro Convex Probe of 2-7 +/- 1MHz
24	The bidders have to quote, the unit price of Probe mentioned in specification for ultrasound machine with colour doppler, separately in the price bid. The L1 bidder will be decided on considering unit price of machine (which means unit price of the machine along with the price of Convex Probe & Linear Probe) + CMC value as per bid clause + unit Price of Probes (which means price of Convex Probe, Linear Probe, Echocardiography Probe, Endocavitary Probe and Micro Convex Probe). The bidder has to supply the optional probe as per the requirement. The prices of probe shall remain fixed till the period of CMC.	The bidders have to quote, the unit price of Probes mentioned in specification, ultrasound machine with colour doppler, separately in the price bid. The L1 bidder will be decided on considering unit price of machine (which means unit price of the machine including the price of Convex Probe & Linear Probe) + CMC value as per bid clause + unit Price of Probes (which means price of Convex Probe, Linear Probe, Echocardiography Probe, Endocavity Probe and Micro Convex Probe). The bidder has to supply the optional probe as well as CMC services of the machine as per requirement. The price of all above mentioned types of probes shall remain fixed for 10 years.

Name of Equipment:-Computerized Radiography (CR System)		
Sl.no.	Technical Specifications as per tender	Proposed Amendment
	The fully Automated Multipurpose Computed Radiography system should have the following essential component & features:-	No Change
1	Image Recording System Cassettes & IP.	No Change
2	Image reader/digitizer,	No Change
3	Cassettes identification system.	No Change
4	Dedicated advance workstation & Console.	No Change
5	Dry image laser.	No Change
6	UPS.	No Change
A.	Image Recording System Cassettes & IP.	
	The following sizes of radiography cassettes along with image plates (Photostimulable phosphor plate) should be supported by the unit. Quantity should be as under	No Change
1	35 cm X 43 cm or 14" X 17" -- 5 nos.	35 cm X 43 cm or 14" X 17" -- 3 nos.
2	24 cm X 30 cm or 10" X 12" -- 5 nos.	24 cm X 30 cm or 10" X 12" -- 3 nos.
3	18 cm X 24 cm or 8" X 10" -- 4 nos.	18 cm X 24 cm or 8" X 10" -- 2 nos.
B.	Image reader. Qty -1	No change
	Stand Alone Floor Model Image reader suitable for Government Hospital which is capable to handle high workload is required.	Stand Alone Floor/ Table Top Model Image reader suitable for Government Hospital which is capable to handle high workload is required.
1	The CR reader should be able to process 65 to 70 image plates/hr or more of the largest size cassette.	The CR reader should be able to process 60 image plates/hr or more of the largest size cassette.
2	CR reader must be able to handle phosphor image plates. Needle/Rigid/Flexible Dual Side reading phosphor image plates.	No Change
3	It should have a resolution of 5pixels/mm (minimum) for standard resolution cassettes & 10 pixel / mm (minimum) for high resolution cassette reading.	No Change
4	Reader must have a resolution of 20 pixel / mm (minimum) for screening mammography.	No Change

5	Gray scale resolution: CR reader should have a minimum resolution of 12bits/ pixel for images sent to CR processing station.	No Change
6	USFDA/ European Issue by notified body) approved Model should be offered.	No Change
7	Power Supply 220VAC +/- 10 %, 50Hz.	No Change
C.	Cassettes identification system – It should be Bar code type.	Cassettes identification system – It should be Bar code / Automatic Cassette Identification type
D.	Dedicated advance workstation & Console.	No Change
1	The processing station must have 4GB RAM, or higher at least 2x ITB HDD in RAID configuration and 19 inch clinical grade monitor. The PC hardware and monitors must be from reputed brands like DELL, HP, and BARCO etc. The monitor should have a wide viewing angle and it should be clinical grade monitor with at least 1.3 MP resolution.	No Change
2	Processing server capable of identification of patient demographics to the acquired images will be preferred, else a separate identification station must be provided.	No Change
3	The server and /or ID station must be DMWL (DICOM modality worklist) compliant to access patient and study data from HIS or RIS.	No Change
4	It should provide display of acquired images with greater details of demographics viz. patient/ study listing for easy access.	No Change
5	The server must provide full amount of post processing features viz. geometric corrections, window level algorithms, annotation like markers, predefined text, drawing lines and geometrical shapes, multi-scale image processing, measuring distance and angles, shuttering, histograms, zoom, grey scale reversal, edge enhancement, noise reduction, indication of gray scale saturation level, latitude reduction etc.	No Change
6	It should facilitate full-fledged DICOM printing and should be able to print multiple formats of patient study.	No Change
7	Should be able to send DICOM images to DICOM workstation or PACS without loss of information.	No Change
8	Should be equipped with DICOM CD writer for transferring image on external device viz. CD or pen drive etc.	No Change

9	The system should have a facility to indicate over /under exposure in the preview screen. Kindly specify the image preview time.	No Change
10	The software must have dedicated pediatric and mammography image processing.	No Change
E.	Dry image laser (For Film printing)	
1	The system should be supplied with dry image (Dry chemistry) with a spatial resolution of 500 PPi/ dpi or more.	No Change
2	It should have contract resolution of 12 bits / pixel or more.	No Change
3	It should have 3 online film sizes out of 8 X 10", 10 X 12", and 14 X 17".	No Change
4	It should have normal throughput of 100 films per hour for the largest size.	It should have normal throughput of 70 films per hour or higher for the largest size
5	Access time for first film should be 90 seconds or less.	No Change
6	The imager should be DICOM ready for receive, send and print facility.	No Change
7	The system should allow at least 3 sizes from 5 sizes to be loaded at any time.	No Change
8	USFDA/ European CE approved Model should be offered.	No Change
9	Power Supply 220VAC +/- 10 %, 50Hz.	No Change
10	Scope of supply shall include free of cost supply of 10 packet. Each packet not less than 90 films for each size (8 X 10", 10 X 12", and 14 X 17". Expiry of each film not less than 1 year.	No Change
F.	UPS- Suitable online UPS back up must be provided for 30 minutes backup for the whole system.	No Change
G.	The bidders should submit Price of All operational consumable items for the equipment along with the Technical bid.	No Change

	Added	The bidder shall quote, units price of cassettes and films of all 3 sizes separately in the price bid. The L1 bidder will be decided by summing of the unit price of machine (which means machine with all required accessories including cassettes of sizes 14" X 17"--3 nos, 10" X 12" --3 nos, 8" X 10" --2 nos, films -01 packet of each size) +CMC value as per bid clause + unit prices of cassette, size 14" X 17" + unit prices of cassette, size 10" X 12"+ unit prices of cassette, size 08" X 10" + cost of 10000 films of sizes 14" X 17" + cost of 10000 films of sizes 10" X 12" + cost of 10000 films of sizes 08" X 10"
	Added	Price of cassettes and films will be freezed for 10 years.