



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-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. Health Institutions of Bihar vide Notice Inviting Tender No.-BMSICL/2018-19/ME-108. The Pre bid meeting for this tender was held on 18.12.2018, during and after which various suggestions received from different prospective bidders regarding amendment in technical specification of the equipment. In order to facilitate the maximum participation of bidders, technical specification of equipment has been amended which is annexed as Annexure-1 and tender schedule is also being revised as following:-

Tender Reference No.	BMSICL/2018-19/ME-108
Date and time for downloading of bid document	Up to 05th January 2019 till 17:00 Hrs.
Last date and time of submission of online bids	07th January 2019 till 17:00 Hrs.
Last date and time of submission of original documents of EMD, Tender Fee and Document.	09th January 2019 till 14:00 Hrs.
Date, Time and Place of opening of Technical Bid	09th January 2019 (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

Sd/-

GM (Procurement)

BMSICL

Annexure-1

Name of Equipment - 800 mA X-Ray Machine with IITV		
Sl no.	Technical Specification before amendments	Technical Specification After Amendments
A	The system should comprise of :	No Change
1	80 KW high frequency generator	No Change
2	Remote controlled R/F Table	No Change
3	12" Image Intensifier DUAL OR HIGHER FIELD	No Change
4	Multi Leaf collimator with auto collimation from Remote table	No Change
5	Vertical Bucky Unit	No Change
6	High capacity X-ray tube and tube assembly.	No Change
7	Appropriate stabilizer for entire X-Ray 800mA with IITV machine (inbuilt/separate) and UPS for computer systems.	No Change
		Added- (Point no- 8) All controls (Table, Collimator & IITV) from remote console.
B	X-Ray Generator	
1	80 KW or more microprocessor controlled generator with high frequency inverter technology	No Change
2	Maximum output : 80 kW(800ma @100 kV)	No Change
3	Radiographic kV range : 40 -150 kV at 1 kV step	No Change
4	Radiographic mA range :50-800Ma	No Change
5	Radiographic mAs range : 0.5-800mAs	No Change
6	Anatomical program memory –user programmable – 50 programs or more	No Change
7	LCD/LED readout for exposure parameter display.	No Change

8	Microprocessor controlled with automatic exposure control	No Change
9	Automatic setting of optimal digital radiography parameters from fluoroscopy parameters	No Change
	(kV, mAs)	No Change
10	Pulsed fluoroscopy should be possible	No Change
11	Safety timer for fluoro cutoff should be available.	No Change
C	R/F Table	
1	Remote controlled operation of table movement	No Change
2	Table tilt: + 90 ~ - 15 deg or more	No Change
3	Lateral movement of table top : Not less than 22 cm	No Change
4	Table should be motorized type for easy patient access Longitudinal movement : Not less than 750 mm. Movement of imaging unit is preferred for patient safety	No Change
5	Total Table Elevation for easy patient transfer	No Change
6	Imaging plate CR Cassette/ Film size : 8 x10 in ~ 14X17 in.	No Change
7	Exposure programs : Up to 4 on 1 should be possible on Cassette Spot Film	No Change
8	3 on 1 for 14 by 17 and 12 by 10 should be possible	No Change
9	Rapid spot filming should be possible	No Change
10	Automatic Cassette Spot filming should be possible	No Change
11	X-Ray Grid: 12:1, 60 lines/cm	No Change
12	Flat table top with step-less adjustment of foot-rest	No Change
13	Foot rest Adjustable hand grip, Shoulder rest and Binder should be provided	No Change
14	Foot switch for examinations at the patient bed side	No Change

15	Remote console with integrated Table control and Monitor mount	No Change
16	Table side controls for controlling the table movements.	No Change
17	Automatic Spot Film Device with cassette up to 14 " by 17" should be possible	No Change
18	X-ray tube 180 degree swing out should be provided for chest X ray.	No Change
19	Same Tube should be able to take Chest X-Rays.	No Change
D	Image Intensifier & Camera	Image Intensifier & Camera should be located under the couch/R/F/ Table.
1	Input field: 12" Dual or more field	No Change
2	Resolution: Not less than 45 lp/cm	No Change
3	Contrast ratio: Not less than 30:1	No Change
4	CCD camera 400 K or more with Last Image hold	No Change
5	19" or more Monochrome LCD Medical Grade Monitors- 2 nos	No Change
6	Trolley for mounting monitor	No Change
E	X-ray Tube	No Change
1	High Speed Rotating anode tube of 9000 rpm or better	No Change
2	Anode heat capacity - 400 KHU	No Change
3	Focal spot size –Small focus –not more than 0.6mm	No Change
	Large focus – not more than 1.2mm	No Change
4	Short term rating – 36 kW/80kW	No Change
F	Vertical Bucky Stand	Vertical Bucky Stand (Single X-Ray Tube)
1	Fully counterbalanced Bucky stand for cassettes size upto 14"x17" with high ratio grid min 10:1 or more	No Change

2	It should have lock for up-down movement	No Change
3	It should be possible to take chest x-ray without grid.	No Change
G	Digital Image Management system	
	System must be supplied with Digital Image Processing Workstation with following Features	No Change
1	DICOM Image Storage system with 19" monitor	No Change
2	DICOM print capability in different formats	No Change
3	CD/DVD writer to Store Images on CD for giving it to patients in PC formats.	No Change
4	Image Sharpening (Real-time or Stored Images)	No Change
5	Dynamic contrast control (Gray Level Stretch with WW & WL)	No Change
6	Cine/Fluro Loop of 500 frames - (Multiple Cine/Fluro Loops to be stored).	No Change
7	Variably frame Rate up to 25 frames per second for cine Loop	No Change
8	ON Screen Measurements	No Change
9	Area of Interest Marker	No Change
10	Text annotations and provision of removal of all text from the image	No Change
11	Frame by Frame review	No Change
12	LAN connectivity	No Change
H	Accessories	
1	Lead Glass viewing window 100 cm x120 cm	No Change
2	Suitable Capacity Voltage Stabilizer Servo Controlled to be supply	No Change
3	Suitable Capacity online UPS with 30 minutes of backup to be provided for digital section of machine	No Change

4	Three light weight lead aprons.	No Change
	Two thyroid shields,	No Change
	Two gonadal shields	No Change
I	All companies must give original product data sheets confirming the specifications along with the tender. The compliance statement must be filled strictly under the heading given in the tender. Each specification corroborated in the compliance statement must give the page number where it is listed in the product data sheet. Incompletely filled/ambiguous information will be not considered.	No Change
G	Complete installation of the X-Ray 800mA with IITV machine including, cable ducting, earthing, lead lining on the doors, and all other works required for the installation of the X-Ray 800mA with IITV machine need to be done by the supplier.	No Change
K	Post installation QA (Quality assurance) test should be done.	No Change
L	USFDA/European CE (Issued by a Notified Body) & AERB Type approval model Should be offered.	No Change