



## **Notice Inviting e-Tender**

**West Bengal Medical Services Corporation Limited**

**Swasthya Sathi**

**GN-29, Salt Lake, Sector-V**

**Kolkata-700091**

Phone No (033) 40340307/320

E mail: [procurement@wbmsc.gov.in](mailto:procurement@wbmsc.gov.in)

**Setting up of New Pacing Lab with Turnkey Works for the Department of  
Cardiology, Midnapore Medical College & Hospital**

(Submission of Bid through *online*)

**Bid Reference No.: WBMSCL/NIT-157/2023**

**Dated-04.04.2023**

### **AMENDMENT-I**

### **Revised Technical Specifications C-ARM Fluoroscope X-Ray Machine**

<b>Specification</b>	<b>Specification Name</b>	<b>Bid Requirement (Allowed Values)</b>
<b>Performance Parameters</b>	<b>Type of Mechanical Motion of C Arm</b>	Motorized / Manual
	<b>Angulation Movement of C Arm in degrees</b>	± 180
	<b>Source to Image Distance in mm</b>	950-1000
	<b>Arc Orbital Movement of C Arm</b>	At least +90° - 30° / At least +90° - 40°
	<b>Panning Movement of C Arm ( Swivel movement)</b>	±12.5°
	<b>Range of Frequency of X ray Generator in khz</b>	40-60 or more
	<b>Generator Power output in Kw</b>	3.5
	<b>Fluoroscopy Range in kvp</b>	40-110
	<b>Fluoroscopy mA range, maximum in mA</b>	0.2 to 10
	<b>Dual focus Rotating Anode X-Ray Tube of focal spot or Stationary Anode X-Ray Tube of focal spot</b>	0.6mm <sup>2</sup> (small) & 1.8mm <sup>2</sup> or less (large)

Specification	Specification Name	Bid Requirement (Allowed Values)
	Anode heat storage capacity with tolerance $\pm 10\%$	40 KHU or more
	Pulses per sec	1 to 12 or more
	Mode selection for Kv and mA	Automatic
	Type of Image Intensifier	9 " triple Field / Flat panel detector
	Number of Monitors provided on/with intensifier system	2 (One for LIH and one for memory display )
	Type of monitor to be provided with intensifier system	LCD
	Size of Monitors in inch	19 inch or more
	Type of Collimator controlled	Both Fixed Collimation Slot & Motorized IRIS
	Type of Camera / Flat Panel Detector	CCD / CMOS Camera / Flat Panel Detector
	Camera Resolution in pixels	1K x 1K
	Acquisition of Camera	14 bits or more
	Image storage capacity in images	50000 or more
	Zoom function available	2x
	DICOM Compatibility	Yes
	The system should be ready to connect with HIS/ PACS	Yes
	Data transfer	Both USB and CD/ DVD
	Radiography through Cassette with holder	Yes
	Upgradable option to digital substration of angiography and peripheral angiography	Yes
	UPS Availability	In-Built / External
	UPS backup time in minutes	30
	Servo Stabilizer supplied	Yes
	Rating of Servo Stabilizer	Appropriate KVA
	Warranty (Option of comprehensive warranty is available through bidding only, which if opted will supersede	2

Specification	Specification Name	Bid Requirement (Allowed Values)
	normal warranty in the catalogue)	
<b>Additional Specification Parameters - C-ARM Fluoroscope X-Ray Machine</b>		
Specification Parameter Name	Bid Requirement (Allowed Values)	
Accessories	Lead jacket hanger stand - 1 pcs (to accommodate 06 hangers), lead jacket- 06 pcs, thyroid guard 06 No.	
1) Digital subtraction of angiography (Road Map facility) and peripheral angiography 2) AERB-type Approval for the quoted model	1) " YES"- is mandatory and it should be in-built 2) Mandatory	
Certification	US FDA / European CE (4 Digit notified body) / UK Cert / BIS	

## Site preparation including interiors and Air-conditioning

1. **Area to be prepared including interiors:** Carpet area of 350 sq. feet approx. The area should be properly lead shielded wherever required as per BARC norms.  
(Only covered space would be provided to the Selected Bidder)

Necessary brick work for compliance (thickening of wall) with AERB requirement should be done by the Selected Bidder.

2. **Height of the room (up to false ceiling):** 3.0 m and above
3. **General**
  - a. **Floor:** Floor (except of Catheterization room) should be of premier quality double charged joint less glazed vitrified tiles of size (800 x 800) mm. High quality Antistatic floor suitable for operation theatre for Catheterization room.
  - b. **Wall:** It should be of premier quality double charged joint less Glazed ceramic tiles of size (600 x 300) mm up to ceiling high. Wall specification should be as per BARC norms. All corners should be filled and finished with matching colour silicon. All visible edges up to a height of 1200 mm to be fixed with mat finish SS corner guard. The same to be flushed with tiles surface.
  - c. **Door for C –ARM Room:** Wooden (with lead shielding as per AERB norms) for C-Arm Room door. Heavy duty double leaf Stainless Steel for Main Entrance door and UPS room door with locking facility with 1 hour fire rating. Both metal doors shall be Stainless Steel finish.

- d. **Paint:** 2 coats synthetic enamel paints over 2 coats primer over wall putty (if required) (Burger/Acknozeble).
- 4. **Air-conditioning machine:** The entire carpet area should be air-conditioned with AC machines of appropriate tonnage and with 100% back up. AC machines with 5 star rating having appropriate capacity to bring down and maintain room temperature up to 22 ° Celsius as per requirement. There should be sufficient number of the AC machines to run the service round the clock and uninterrupted in case of breakdown of any of the AC machine(s). A/C ducting to prepare, if required.

**Indicative AC Make:** **O General/Daikin/Mitsubishi**

- 5. High quality room LED lighting (up to 400 LUX of luminance)
- 6. **Spot light - 1 no.**
- 7. Gas Pipelines etc with 4 terminations – 3 at patient waiting area & other at Catheterization room – imported terminals to be supplied.
- 8. **Wiring System:**
  - A. Light, Fan, 5 Amp Plug: 3 X 1.5 sq. mm copper conductor FRLS wire should be provided.
  - B. Power Plug (15 Amp): 2 X 2.5 + 1 X 1.5 sq. mm copper conductor FRLS wire should be provided.
  - C. Split AC wiring: 2 X 4 + 1 X 2.5 sq. mm copper conductor FRLS wire should be provided.
- 9. **Earthing:** 4(Four) nos. Copper plate earthing as per PWD schedule.

**Note:** The items mentioned above are indicative in nature

### **Furniture to be supplied:**

<b>a)</b>	<b>Crash Cart: 1 No. (Godrej/ Janak)</b>
-----------	------------------------------------------