



Notice Inviting e-Tender

**West Bengal Medical Services Corporation Limited
Swasthya Sathi
GN-29, Salt Lake, Sector-V
Kolkata-700091**

Phone No (033) 40340307/20

E mail: procurement@wbmsc.gov.in

SUPPLY & INSTALLATION OF 128 Slice CT SCANNER & 16 SLICE CT SCANNER MACHINE IN THE MEDICAL COLLEGE AND HOSPITAL OF GOVERNMENT OF WEST BENGAL.

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-214/2018

Dated-12.10.2018

Amendment-II

REVISED TECHNICAL SPECIFICATION

16 SLICE CT SCAN

Parameter / Feature	THRESHOLD LIMIT / Range
GANTRY	
Scan time for 360 degree rotation	0.8 seconds or less
Minimum Slice thickness	0.625 mm or less
FOV in acquisition mode	(20 to 50) or more
Aperture	70 cm or more
X RAY SECTION	
System X-ray power	40 KW or more
mA range	(10 to 300mA) or more
Heat storage capacity in MHU	3.5 or more
X-ray tube cooling rate in KHU per min	700 or more
DETECTOR	
No. of Detector Rows	16 or more
Effective element/channels per row	650 or more

PATIENT COUCH	
Load bearing capacity	170 Kg or more
Range of metal free scan	150 cm or more
SPIRAL / HELICAL SECTION	
Spiral capability	100 seconds or more
Length of continuous spiral scan	100 cms or more
COMPUTER SYSTEM	
RAM size in GB	4 or more
No. of the Monitor	2 or more
Monitor size in inches	19 or more
Display matrix	1024× 1024 or more
Reconstruction time for an axial scan	120 miliseconds or less
Mention Hard disk capacity for image and raw data	1 TB or more
Image storage capacity	100000 images or more
Advanced work station RAM	4 GB or more
RESOLUTION	
High contrast resolution in lp/cm	15 or more
Low contrast resolution in mm at 0.3%	3 or more
DRY CAMERA	
LASER Printer with 3 minimum ports	16 bits and 500dpi
Throughput per hour	70 or more
MUST HAVE SPECIFICATION	
Parameter / Feature	Yes/No
GANTRY	
Remote tilt	
With user control panels on either sides	
3 D positioning LASER lights	
X-RAY SECTION	
Compact and inbuilt generator in the gantry	
Dual focus X-ray tube	
X-ray tube cooling unit in built in gantry	
DETECTORS	

Solid State	
PATIENT COUCH	
Remote UP/ DOWN , FWD/ BWD option	
SPIRAL/HELICAL SECTION	
Ability to track contrast medium to trigger scan	
Dose reduction scan	
COMPUTER SYSTEM	
Multitasking processors and menu driven platform	
additional work station with all the software available in console	
Archiving facility of DVD & CD Main console	
Capability from HIS- RIS interface	
PACS interface without any new hardware or software	
DICOM 3.0	
PC based connectivity	
Advanced work station	
IMAGE PROCESSING	
3 D volume rendering	
MIP	
CT angiography	
Artifact suppressions	
Pre set 3D reconstruction & display protocols	
Auto bone removals	
CT based DSA attachment	
Virtual endoscopy	
Colonoscopy	
CT perfusion	
Dental scan	
Bone removal	
MPR	
ROI	

VOLUME CALCULATION	
CT NUMBER Measurement	
WINDOW WIDTH	
WINDOW LEVEL	
TOPOGRAM DISPLAY	
CINE DISPLAY	
HRCT LUNG	
DYNAMIC SCAN	
Direct display of MPR images Immediately after scan	
ACCESSORIES	
Whether films are Proprietary and Company specific	
Single head contrast injector (300 psi) of reputed make	
Others	
Anesthesia machine along with ventilator facility	
Model launched in 2014 or after	
Standard and Quality Certification	
EUROPEAN CE and US FDA	

Specifications for Turnkey Work

Site preparation including interiors and Air-conditioning

1. **Area to be prepared including interiors:** Carpet area of 750 sq. feet approx. The area should have properly lead shielded wherever required as per BARC norms.
(Only covered space would be provided to the supplier)

Necessary brick work for compliance (thickening of wall) with AERB requirement should be done by the selected agency. Damp proof treatment wherever required. Paste, termite and rodent control from authorized agency for the warranty & CMC period. The agency should submit certificate after the treatment. Regular cleaning and weekly deep cleaning for entire unit

2. **Height of the room (up to false ceiling):** 3.0 m and above
3. **General**
 - a) **Floor:** Floor (except of CT room) should be of premier quality double charged joint less Glazed ceramic tiles of size (800 x 800) mm. Antistatic floor for CT room
 - b) **Ceiling:** Aluminium Composite panel board + Powdered coated Aluminium Grid Ceiling

- c) **Wall:** should be of premier quality double charged joint less Glazed ceramic tiles of size (450 x 300) mm up to ceiling high. Wall specification should be as per BARC norms
 - d) **Door for CT Room:** Wooden (with lead shielding as per AERB norms)
 - e) **Paint:** 2 coats synthetic enamel paints over 2 coats primer over wall putty (if required)
 - f) **Viewing Window:** Size of the Lead window should be at least 2" (H) X 4" (W)
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 16° 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/ Hitachi/ Mitsubishi

- 5. High quality room lighting (up to 350 LUX of illuminance)
- 6. Ambient light interior during treatment period.
- 7. Gas Pipelines etc.
- 8. The bidders to submit drawing layout plan of the interior. At least 15 -20 patient holding positions has to be mentioned in the drawing layout plan. Sufficient furniture to be supplied for the console room and patient waiting.
- 9. Movable Skylight at ceiling
- 10. **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.
- 11. **Earthing:** Two nos. Copper plate earthing as per PWD schedule
- 12. Dress Changing room

Note: The items mentioned above are indicative in nature

Furniture to be supplied:

a)	Executive revolving chair with arm rest: 6 Nos. (Godrej/ Featherlite)
b)	Steel Almirah with Rack: 3 Nos. (Godrej)
c)	Wooden Shoe Rack: 2 Nos (Godrej)
d)	Crush Card: 1 No. (Godrej/ Janak)
e)	i) Console table -1 No. ii) Additional Table for workstation size of (1200 x 800) mm- 1 No.(Godrej/ Featherlite)
f)	Mirror in change Room with small storage rack and clothes Hook, Curtain with SS rods and Hooks- 1 No
g)	Wheel chair: 1 No

h)	LED view box for two films - 2 Nos
i)	Patient trolley with mattress with O2 Cylinder facility: 1 No.
j)	PA system with FM/USB facility (Sony/Philips/Bosch)- 1 No.
k)	Night vision CCTV camera with proper coverage of patient waiting area, entry gate, console & UPS room with storage capacity of 15 days
l)	24x7 online dehumidifier-2 Nos.
l	Note: The items mentioned above are indicative in nature