



Notice Inviting e-Tender

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Supply and Commissioning of Multidimensional Surgical Imaging System for BIN -Annex of IPGME&R-SSKM Hospital

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-068/2023

Dated-17.02.2023

Amendment-I

Technical Specifications

Multi-Dimensional Surgical Imaging System

1. It should have a 360° scan and should be motorized with more than 100 images and two levels of 3D slice thickness.
2. It should have a Telescoping door section for lateral patient access.
3. The Imaging components should be in enclosed housing for increased patient and staff safety.
4. It should be Fully functional with no component movement in and out of sterile field
5. It should have a High-resolution fluoroscopy
6. It should have High resolution 3-D - Axial, Coronal, Sagittal planes.
7. It should have 32 kW X-ray generator for imaging dense anatomy
8. It should have Large 30" (diagonal) display for superior viewing at a distance.
9. It should have the Ability to go 'full-screen' on any image for superior viewing at a distance.
10. It should have a Wireless, sterile mouse control of image viewing.
11. It should have a Robotic positioning system in 6 degrees of freedom.
12. It should have the Ability to position x-ray tube on either side of patient in lateral 2-D imaging for decreased surgeon exposure.
13. It should have a Storage of pre-set imaging positions for quick, accurate access to commonly viewed images, avoiding the need for re-scouting.

14. It should have storage of pre-set 'park' positions for easy access to patient while imaging is not required.
15. It should have a Power drive for easy handling of imaging system.
16. It should Utilize 40 x 30 cm digital flat panel detector, 3 mega pixel (2K x 1.5K; pixel pitch of 0.192mm) for increased image quality (large field of view, square images without distortion).
17. It should Complete 3-D image acquisition in <15 seconds.
18. The 3-D image should be displayed in less than 30 seconds from initiation of acquisition.
19. The Bore diameter of the imaging system should be more than 78cms.
20. The source to image distance should be more than 39".
21. The imaging system should have a provision for selecting region of interest for automatic brightness and window/level control.
22. The imaging system should have automatic noise reduction, edge enhancement, full screen zooms, digital image rotation, digital window/level control, left/right and top/bottom image reversal, positive/negative image inversion.
23. The imaging system should be able to store more than 10,000 2D images and more than 200 3D scans on hard disk.
24. The imaging system should have a CD R/W.
25. There must be various outputs like Ethernet, USB, Composite video, S- video.
26. The imaging system should have DICOM functions.
27. The imaging system should offer two levels of operation allowing optimal slice thickness/reconstruction time selection based on the clinical application.
28. The imaging system should offer 12cm volume cube or more anatomical coverage.
29. The imaging system should have different types/features of rotation like Orbital, pivot, swivel, Iso-wag.
30. Suitable imported radiolucent carbon-fiber spine table extension should be provided along with the Multi-Dimensional Surgical Imaging System.
31. The system should be European CE(4 digit notified body) and USFDA approved.
32. It should be supplied with navigable spine instrumentation sets for complete navigable spine procedures of cervical spine, minimally invasive lumbar spine and interbody fusion etc.
33. The Multi-Dimensional Surgical Imaging System should be compatible with image guided surgical navigation system with auto-registration facility with below specifications.