

**TAMILNADU MEDICAL SERVICES CORPORATION LTD.,****TENDER FOR SUPPLY AND INSTALLATION OF NEURO NAVIGATION SYSTEM  
FOR CRANIAL & SPINAL APPLICATION AND COMPLETE MULTI-DIMENSIONAL  
SURGICAL IMAGING SYSTEM TO DEPT. OF NEURO SURGERY, GOVT. RAJAJI  
HOSPITAL, MADURAI UNDER PMSSY SCHEME****TENDER NO.293/NNS/PMSSY-GRHM/TNMSC/ENGG/2018, DT.22.03.2018****Corrigendum**

a) The following corrigendum are issued:-

<b>Sl. No.</b>	<b>Tender Document Reference</b>	<b>Instead of</b>	<b>Read as</b>
1.	Page No.54 Section VI: Technical Specification 1. Specification for Neuro Navigation System for Cranial and Spinal Applications	7. The system must include an integrated CD/DVD drive for reading CDs and DVDs as well as create DVDs.	7. The system must include an integrated CD/DVD/USB/ Network Port drive for data import and data export.
2.	Page No.55 Section VI: Technical Specification 1. Specification for Neuro Navigation System for Cranial and Spinal Applications	18. Surgeon monitor should have display size of minimum 24".	18. Surgeon monitor should have display size of minimum 21" or better.
3.	Page No.56 Section VI: Technical Specification 1. Specification for Neuro Navigation System for Cranial and Spinal Applications	31. System should have pre-calibrated Lumbar and Thoracic probes.	31. System should have pre-calibrated Lumbar and Thoracic probes or system should be able to calibrate the 3-dimensional geometry of any Lumbar and Thoracic probes.
4.	Page No.56 Section VI: Technical	34. The system should have image guided pre-calibrated	34. The system should have image guided pre-calibrated

Sl. No.	Tender Document Reference	Instead of	Read as
	<p>Specification</p> <p>1. Specification for Neuro Navigation System for Cranial and Spinal Applications</p>	<p>and ready to navigate spinal instruments like short drill guide, Awl/Probe/Tap</p>	<p>and ready to navigate spinal instruments like short drill guide, Awl/Probe/Tap or it should be able to calibrate the 3-dimensional geometry of the short drill guide/AWL/Probes/ Tap.</p>
5.	<p>Page No.56</p> <p>Section VI: Technical Specification</p> <p>1. Specification for Neuro Navigation System for Cranial and Spinal Applications</p>	<p>36. It should have Minimally invasive Spine Instruments with Navigated Dilator and Percutaneous Clamps</p>	<p>36. It should have Minimally invasive Spine Instruments to do spinal navigation during MIS procedures.</p>
6.	<p>Page No.56</p> <p>Section VI: Technical Specification</p> <p>1. Specification for Neuro Navigation System for Cranial and Spinal Applications</p>	<p>37. It should have Pre-calibrated Tactile Probe set for left and right Thoracic and Lumbar</p>	<p>37. It should have Pre-calibrated Tactile Probe set for left and right Thoracic and Lumbar or it should be able to calibrate the 3-dimensional geometry of the Tactile or Lenke probes.</p>
7.	<p>Page No.56</p> <p>Section VI: Technical Specification</p> <p>1. Specification for Neuro Navigation System for Cranial and Spinal Applications</p>	<p>38. System should have facility of virtual fluoroscopic navigation for spinal applications compatible with O-Arm (complete multidimensional surgical imaging system), compatible with intraoperative CT / MRI, Compatible with 9” and 12 “ C-arm of Philips, Shimadzu, Toshiba, Siemens, GE.</p>	<p>38. System should have facility of virtual fluoroscopic navigation for spinal applications compatible with CT 3D C-arms Compatible with 9” and 12 “ C-arm of Philips, Shimadzu, Toshiba, Siemens, GE.</p>

Sl. No.	Tender Document Reference	Instead of	Read as
8.	Page No.56 Section VI: Technical Specification 1. Specification for Neuro Navigation System for Cranial and Spinal Applications	39. The System must have portable Intraoperative Ultrasound imaging system and software for brain shift compensation, tumour delineation & resection. Navigation system should be supplied along compatible intraoperative Ultrasound scanner.	39. The System must have portable high resolution Intraoperative ultrasound imaging system with autoclavable intraoperative probe for Neurosurgery and software for brain shift compensation, tumour delineation & resection. Navigation system should be supplied along with compatible intraoperative ultrasound scanner.
9.	Page No.56 Section VI: Technical Specification 1. Specification for Neuro Navigation System for Cranial and Spinal Applications	40. The system should capture & display live USG video images. It should reconstruct & perform the 2D overlay on the intra-operatively acquired USG images	40. The system should capture & display live USG video images. It should do a 3D reconstruction & perform the 3D overlay on the intra-operatively acquired USG images.
10.	Page No.57 Section VI: Technical Specification 2. Specification for Complete Multi Dimensional Surgical Imaging System	1. It should have a 270 <sup>0</sup> to 360° scan and should be motorized with more than 100 images and two levels of 3D slice thickness.	1. It should have a <b>minimum 180° or more degree scan</b> and should be motorized with more than 100 images and two levels of 3D slice thickness.
11.	Page No.58 Section VI: Technical Specification 2. Specification for Complete	19. It should Utilize 40 x 30 cm digital flat panel detector, 3 megapixel (2K x 1.5K; pixel pitch of 0.192mm) for	19. It should have minimum 30 x 30 cm digital flat panel detector, 3 megapixel (2K x 1.5K; pixel pitch of 0.192mm)

Sl. No.	Tender Document Reference	Instead of	Read as
	Multi Dimensional Surgical Imaging System	increased image quality (large field of view, square images without distortion.	for increased image quality (large field of view, square images without distortion.
12.	Page No.57 Section VI: Technical Specification 2. Specification for Complete Multi Dimensional Surgical Imaging System	20. It should Complete 3-D image acquisition in ~13 seconds.	20. It should Complete 3-D image acquisition in <b>45 seconds or lesser.</b>
13.	Page No.57 Section VI: Technical Specification 2. Specification for Complete Multi Dimensional Surgical Imaging System	21. The 3-D image should be displayed in less than 30 seconds from initiation of acquisition.	21. The 3-D image should be displayed in less than <b>35 seconds</b> from initiation of acquisition.

b) The following due date is extended:-

Sale of bidding document : up to 28.06.2018

Last date and time for receipt of bids : 29.06.2018, 11.00 AM

Date and time of opening of bids : 29.06.2018, 12.00 Noon

All other terms and conditions of the tender remain unaltered.

The above forms part of the bidding documents. The bidder shall attach the copy of this corrigendum duly signed by their authorized signatory, in their bid.

**Sd/-**

**General Manager (E)**