

18-07-2018

**Amendment No. 2****Sub: Amendment to the referred tender enquiry****Ref.: Tender Enquiry HITES/PCD/PMSSY-III/31/NRSG/18-19 dated 20/06/2018****Amendment No. 01 dated 03-07-2018**

The following changes are being incorporated in the above referred Tender Enquiry Document.

**Section VII  
Technical Specification****Schedule No. 04  
Cranial Surgery Set (Rfx No. 3000002899)**

<b>Para</b>	<b>TENDER SPECIFICATION</b>	<b>READ AS</b>
10	Manufacturer should meet the International Certification as per <b>ISO 13845</b>	Manufacturer should meet the International Certification as per <b>ISO 13485</b>

**Schedule No. 08  
Spine Surgery Set (Rfx No. 3000002903)**

<b>Para</b>	<b>TENDER SPECIFICATION</b>	<b>READ AS</b>
10	Manufacturer should meet the International Certification as per <b>ISO 13845</b>	Manufacturer should meet the International Certification as per <b>ISO 13485</b>

**Schedule No. 16-A.  
C Arm Image intensifier (Rfx no. 3000002911)**

<b>Amdmt-01 Page No. &amp; Para</b>	<b>TENDER SPECIFICATION</b>	<b>READ AS</b>
<b>Page 10 Para A 5</b>	<b>X-RAY GENERATOR</b> 3 mA or more in normal fluoroscopy and 8 mA or more in High Level Fluro	3 mA or more in normal fluoroscopy and <b>6 mA or more</b> in High Level Fluro
<b>Page 10 Para A 6</b>	<b>X-RAY GENERATOR</b> Should have facility for continuous fluoroscopy and Pulse fluoroscopy (Pulse rate upto 8 pulse per second)	Should have facility for continuous fluoroscopy and Pulse fluoroscopy (Pulse rate <b>upto 7 pulse</b> per second)

<b>Amdmt-01 Page No. &amp; Para</b>	<b>TENDER SPECIFICATION</b>	<b>READ AS</b>
<b>Page 10 Para A 6</b>	<b>X-RAY GENERATOR</b> Should have Digital Spot for high quality single image, 10 mA or more	Should have Digital Spot for high quality single image, <b>7 mA or more</b>
<b>Page 10 Para B 4</b>	<b>X-Ray tube Head</b> Tube assembly filtration of 3.0 mm Al or higher	Tube assembly filtration of <b>1.8 mm Al or higher</b>
<b>Page 11 Para D 2</b>	<b>Control panel (Digital work station)</b> System should have capability of Pulse Fluoroscopy option to reduce to radiation exposure with 1-10 pulse per second, which should be easily user selectable	Control panel (Digital work station) System should have capability of Pulse Fluoroscopy option to reduce to radiation exposure with <b>2-7 pulse per second</b> , which should be easily user selectable
<b>Page 11 Para E a) 1</b>	<b>Integrated image processing, recording and memory system : Image intensifier tube</b> Input diameter 9" with dual field (9/6)	Input diameter 9" with dual field (9/6) or Triple field (9/6/4.5)
<b>BOQ</b>	Lead Aprons with front protection - 3 nos	Lead Aprons with front protection - 6 nos

**Schedule No. 16-B.**  
**C Arm with DSA (Rfx no. 300003137)**

<b>Amdmt-01 Page No. &amp; Para</b>	<b>TENDER SPECIFICATION</b>	<b>READ AS</b>
<b>Page 12 Para A 2</b>	<b>X-RAY GENERATOR</b> Power output : 3.5 KW or more	Power output : <b>2 KW or more</b>
<b>Page 12 Para A 5</b>	<b>X-RAY GENERATOR</b> 3 mA or more in normal fluoroscopy and 8 mA or more in High Level Fluro	3 mA or more in normal fluoroscopy and <b>7 mA or more</b> in High Level Fluro
<b>Page 12 Para B 4</b>	<b>X-Ray tube Head</b> Tube assembly filtration of 3.0 mm Al or higher	Tube assembly filtration of <b>2.5 mm Al or higher</b>
<b>Page 12 Para C 5</b>	<b>C-Arm mechanism and control panel</b> Orbital movement : (-) 30 deg. To (+) 90 Deg. (120 Deg. Or more)	Orbital movement : <b>(-) 25 deg.</b> To (+) 90 Deg. <b>(115 Deg. Or more)</b>
<b>Page 12 Para C 8</b>	<b>C-Arm mechanism and control panel</b> Depth of c-arm : 650 mm or more	Depth of c-arm : <b>610 mm or more</b>

<b>Amdmt-01 Page No. &amp; Para</b>	<b>TENDER SPECIFICATION</b>	<b>READ AS</b>
<b>Page 12 Para D 2</b>	<b>Control panel (Digital work station)</b> System should have capability of Pulse Fluoroscopy option to reduce to radiation exposure with 1-10 pulse per second, which should be easily user selectable	Control panel (Digital work station) System should have capability of Pulse Fluoroscopy option to reduce to radiation exposure with <b>2-7 pulse</b> per second, which should be easily user selectable
<b>Page 12 Para E a) 1</b>	<b>Integrated image processing, recording and memory system :</b> <b>Image intensifier tube</b> Input diameter 9" with dual field (9/6)	Input diameter 9" with dual field (9/6)/Triple field (9/6/4.5)
<b>Page 13 Para H 3</b>	<b>DSA</b> Complete DSA Package with Road Mapping facility, Pixel shift, landmark, remasking capabilities etc.	Complete DSA Package with Road Mapping facility etc
<b>Page 13 Para H 4</b>	<b>DSA</b> 4 Image storage of min. 10000 images in 1024x1024 matrix	4 Image storage of min. 50000 images in 1024x1024 matrix
<b>Page 13 Para H 8</b>	<b>DSA</b> Options for post processing, archiving and documentation: With CD, DVD in DICOM and with USB in DICOM and BMP format	Options for post processing, archiving and documentation: With CD, DVD in DICOM and with USB in DICOM and BMP/TIFF/JPEG/equivalent format
<b>BOQ</b>	Lead Aprons with front protection - 3 nos	Lead Aprons with front protection - 6 nos

**Schedule No. 16-C.****C Arm Flat Panel (Rfx no. 3000003138)**

<b>Amdmt-01 Page No. &amp; Para</b>	<b>TENDER SPECIFICATION</b>	<b>READ AS</b>
<b>Page 14 Para A 1</b>	<b>GANTRY / C-ARM</b> The system should have a minimum of 80cm free space within the C-Arm to provide a large imaging space.	The system should have a minimum of <b>77cm</b> free space within the C-Arm to provide a large imaging space.

<b>Amdmt-01 Page No. &amp; Para</b>	<b>TENDER SPECIFICATION</b>	<b>READ AS</b>
<b>Page 14 Para A 2</b>	<b>GANTRY / C-ARM</b> The C-arm depth should be 70 cm or deeper to provide a large imaging space and C-arm clearance around the patient and the imaging table.	The C-arm depth should be <b>67 cm or more</b> to provide a large imaging space and C-arm clearance around the patient and the imaging table.
<b>Page 14 Para B 4</b>	<b>GENERATOR &amp; X-RAY TUBE</b> Fluoroscopic mA range : 4 mA - 60 mA	Fluoroscopic mA range : <b>4 mA - 20 mA or more</b>
<b>Page 14 Para B 6</b>	<b>GENERATOR &amp; X-RAY TUBE</b> Radiographic mA range : Minimum 100mA	Radiographic mA range : <b>Minimum 70mA</b>
<b>Page 14 Para C 1</b>	<b>FLAT PANEL DETECTOR SYSTEM</b> The system should have a Flat detector of CSI with Amorphous Silicon doping.	The system should have a Flat detector of CSI with <b>Amorphous Silicon doping or CMOS.</b>
<b>Page 14 Para C 4</b>	<b>FLAT PANEL DETECTOR SYSTEM</b> The system should be equipped with two high-resolution 18" LCD/TFT medical grade monitors or more.	The system should be equipped with two high-resolution 18" LCD/TFT medical grade monitors <b>or more./one high resolution large display of min 32"with split facility.</b>
<b>Page 15 Para D 4</b>	<b>DIGITAL SYSTEM &amp; IMAGE MANAGEMENT</b> The system should provide a real – time post processing edge enhancement capabilities to get better image quality according to the density of the tissue. An electronic zoom function, an automatic save function to hard disk, Mosaic Display.	The system should provide a real – time post processing edge enhancement capabilities to get better image quality according to the density of the tissue. An <b>electronic/digital zoom function</b> , save function to hard disk, Multi display.
<b>Page 15 Para E 7</b>	<b>DSA (Price to be quoted Separately)</b> Support of virtually all DICOM 3.0 functionalities : DICOM Send/Receive , Storage, Print, Work list,Query/Retrieve , MPPS (Modality Performed Procedure Step) for importing data from HIS/RIS system.	Deleted
<b>BOQ</b>	Lead Aprons with front protection - 3 nos	Lead Aprons with front protection - <b>6 nos</b>

**All other contents of the tender enquiry including terms & conditions remain unaltered.**

**Note:**

- i. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**