

All Bidders**Amendment-IV**

Subject: Execution including Supply, Installation, Testing & Commissioning of Integration & Data Management System of Modular Operation Theatres (IOT) for Advanced Neuro Science Centre at PGIMER, Chandigarh

Tender No: HSCC/SES/IOT/PGI/Neuro Science/2023 Date: 02.02.2023

This has reference to above tender.

The following Amendment may be noted which shall be treated as part of the tender document and to be submitted duly signed & stamp along with tender.

Sr. No.	Bidder's Queries	Reply
1.	<p>Page no. 5, Point no. 2.0 (ii), Pre-Qualification Criteria</p> <p>Experience of having successfully completed similar work during last 7 years ending previous day of last date of submission of tender should be either of the following:</p> <p>Three similar* completed works costing not less than the amount equal to 40% of the estimated cost of work.</p> <p>Or</p> <p>Two similar* completed works costing not less than the amount equal to 50% of the estimated cost of work.</p> <p>Or</p> <p>One similar* completed work costing not less than the amount equal to 80% of the estimated cost of work.</p> <p>*Similar nature of works means successful completion of supply, Installation, testing and commissioning of Integration & Data Management System of Modular Operation Theatres in India.</p> <p>Amendment Request:</p>	<p>Tender terms & conditions prevail.</p>

	<p>Experience of having successfully completed similar work during last 7 years ending previous day of last date of submission of tender should be either of the following:</p> <p>Three similar* completed works costing not less than the amount equal to 40% of the estimated cost of work.</p> <p>Or</p> <p>Two similar* completed works costing not less than the amount equal to 50% of the estimated cost of work.</p> <p>Or</p> <p>One similar* completed work costing not less than the amount equal to 80% of the estimated cost of work.</p> <p>*Similar nature of works means successful completion of supply, Installation, testing and commissioning of Integration & Data Management System / Modular Operation Theatres in India / Aboard</p> <p>As you aware that Integration and Data Management System comes under Modular Operation Theatres experience work.</p> <p>Hence, you are requested to kindly consider experience of MOT in India / aboard for wider participation.</p>	
2.	<p>Integration & Data Management of MOT</p> <p>Estimated Cost Rs.5.37 Crore</p> <p>Amendment Request:</p> <p>Rs 8.50 Crore</p> <p>Considering the scope of work & technical specification, estimated cost of work is very low.</p> <p>We request for per OT cost of Rs 85 Lakhs in order to deliver and execute solution with desired specification.</p>	Tender terms & conditions prevail.

3.	<p>Scope of works</p> <p>Bidder should be responsible for all cut-outs, patch-panels, flushing of monitors, etc. and repairing & repainting of OTs thereafter (If required) in coordination with MOT contractor for successful completion of work.</p> <p>Request for amendment:</p> <p>a) MOT vendor to be responsible for all cut-outs, patch panels,flushing of monitors, etc and repairing & repainting of OTs therefater .</p> <p>b) OT Integration vendor shall provide necessary drawings and marking for all cut-outs to be done in the OT.</p>	Tender terms & conditions prevail.
4.	<p>Two 32-inch or more Full High Definition (1920X1080p) medical grade monitor mounted on ceiling suspended spring arm for each Integrated MOT</p> <p>Request for amendment :</p> <p>a) 32" Medical Monitor to be 4K for better resolution & viewing experience.</p> <p>Request for calrification:</p> <p>a) Please clarify if both monitors to be supplied with additional arm .</p> <p>b) In case OT Light is with third arm, then one monitor can be installed on the third arm of the OT Light and no arm is required for the installation.</p>	Tender terms & conditions prevail.
5.	<p>One 55-inch FHD (1920X1080p) or more medical grade color monitor should be flush mounted on OT wall with all necessary frames with glass should be provided by bidder for each integrated MOT</p> <p>Request for amendment :</p> <p>a) 55"medical monitor to be with resolution 4K.</p>	Tender terms & conditions prevail.
6.	<p>b) The Audio-Video system should have minimum 8 x 8 Digital / 12 x 12 Digital with open architecture having compatibility of signals like SD, HD, FHD, 3D/4K signals like SD, HD, FHD, 3D/4K signal etc. (e.g. Room</p>	Tender terms & conditions prevail.

	<p>Camera/OT Light Camera/ Endoscopic Camera/Recorded Videos/etc)</p> <p>Request for amendment :</p> <p>a) The Audio-Video system should have minimum 8 x 8 Digital / 12 x 12 Digital with open architecture having compatibility of signals like SD, HD, FHD, 3D,4K signals like SD, HD, FHD, 3D,4K signal etc. (e.g. Room Camera/OT Light Camera/ Endoscopic Camera/Recorded Videos/etc)</p> <p>Justification:</p> <p>a) Audio-Video system should be compatible for both 3D & 4K to ensure integtaion of all video modalities inside the OR.</p> <p>b) It should not be just for 3D or 4K.</p>	
7.	<p>i)All patch panel work required for Hardware of OT Integration system should be in the bidder's scope of work and also necessary co-ordination with consignee, MOT Vendor, construction vendor and HSCC/Institute will be the responsibility of the bidder for successful completion of all the associated works</p> <p>Request for clarification:</p> <p>All cutouts required for patch panel to be done by MOT vendor based on the drawing of OT Integration drawing.</p>	Tender terms & conditions prevail.
8.	<p>l) The video conferencing system should be controlled via the touch screen of the integration system and it should capable of sending and receiving of any VC call through IP. All MOTs should be capable of dialling VC calls and receiving VC calls and simultaneously. Parties can be any two MOTs simultaneously of respective institute and any other two parties who having IP based VC anywhere in the world</p> <p>Request for clarification :</p> <p>a) The video conferencing system should be a hardware VC codec capable of sending & receiving of any VC call through IP.</p> <p>a) In addition to above points , system should offer unified communication for transmission on Teams/Zoom/Facebook/Youtube.</p>	Tender terms & conditions prevail.

9.	<p>d) It should have at least 500 GB or more internal Hard Disk Drive (HDD) for in-system archiving. Also, able to automatically transfer the data to storage server present Hospital Network. It should be able to preview and simultaneously record views from two video sources parallel and archive as single patient file. 5 TB network storage should be provided with each integrated OT, it should be kept within the integration rack.</p> <p>Request for amendment:</p> <p>It should have at least 2 TB or more internal Hard Disk.</p>	Tender terms & conditions prevail.
10.	<p>g) The control system rack should be flush mounted into the MOT wall or mounted on rack at dirty corridor, all the suitable flushing/mounting rack & accessories should be provided by the bidder and it should be accessible for servicing purpose.</p> <p>Request for amendment :</p> <p>MOT vendor to provide depth of 800mm to flush the OT Integration system.</p>	Tender terms & conditions prevail.
11.	<p>a) Full HD live streams of at least three-user selectable any Video sources of each integrated MOT should be provided with suitable encoders & decoders. The sources for the video streaming is freely selectable and the surgeon should be able to put the OT in Private Mode/off, if streaming of Audio- Video is not required to a particular user or to all the users</p> <p>Request for amendment :</p> <p>a) Full HD live streams of any selectable video sources of each integrated MOT should be provided with suitable encoders & decoders. The sources for the video streaming is freely selectable and the surgeon should be able to put the OT in Private Mode/off, if streaming of Audio- Video is not required to a particular user or to all the users.</p> <p>b) System should offer Bi-Directional Telesatration while streaming on LAN for teaching & training purpose.</p>	Tender terms & conditions prevail.

12.	<p>Integrated routers should be placed in the Doc station well encapsulated with Modular OT walls Or Trolley Based VC System</p> <p>Request for amendment:</p> <p>a) MOT vendor to provide depth of 800mm to flush the OT Integration system.</p> <p>Request for Deletion : Deletion for Trolley based VC.</p>	Tender terms & condition prevail.
13.	<p>Steaming solution inside the OT, Integration Router system and Server in the Control Room should be from the same principle manufacturing company and should be classified medical device.</p> <p>Request for amendment :</p> <p>a) No Server is required</p>	Tender terms & conditions prevail.
14.	<p>a)The VC system should be equipped with all hardware, software & licenses to enable the bi-directional Video Conferencing like – FHD Camera with 10x Optical Zoom, Freely PAN/TILT for view setting with all controls, dedicated wireless Mic, Speaker, min. 26”- 32 LED monitor, etc. and suitable system for dialling & receiving the IP calls.</p> <p>Request for Clarification:</p> <p>a) The video conferencing system should be mobile & a hardware VC codec capable of sending & receiving of any VC call through IP.</p> <p>b) The mobile VC should be equipped with all hardware, software & licenses to enable the bi-directional Video Conferencing like – FHD Camera with 10x Optical Zoom, Freely PAN/TILT for view setting with all controls, dedicated wireless Mic, Speaker, min. 26”- 32 LED monitor, etc. and suitable system for dialling & receiving the IP calls.</p>	Tender terms & conditions prevail.
15.	Bidder shall be responsible for installation and commissioning of medical equipment for Integration and Data management System of Modular OT in coordination with respective institute/hospital authorities	Tender terms & conditions prevail.

	<p>Request for amendment:</p> <p>OT Integration Vendor not to be responsible for any installation of medical Equipment. OT Integration vendor to be only responsible for installation & commissioning of OT Integration system.</p>	
16.	<p>The bidder should provide UPS power supply with necessary cabling as per electrical standard (if UPS for OT is under the scope of bidder)</p> <p>Request for amendment:</p> <p>UPS power supply to be provided by the hospital and not to be in the scope of OT Integration Vendor.</p>	Tender terms & conditions prevail.

All other terms & conditions remain unchanged.

Chief General Manager
HSCC (India) Ltd.