

**Amendment -II**

Project: Supply, Installation, Testing & Commissioning of Modular Operation Theatres (MOTs) and Mid End Modular Operation Theatres at PGI Satellite Centre for PGIMER at Village Ghabdan, Sangrur

Tender No : HSCC/SES/MOT /PGI/SANGRUR/2020 Date : 14.02.2020

This has reference to above IFB.

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.	Bidders' Queries	Reply
1.	<p>Volume-I, Page no. 3,</p> <p>Period of Completion: 5 Months</p> <p>We request the period of completion should be 6 months after approval of drawings. You would appreciate that quantum of this Project is large and arranging quantity of material takes time and resources. This is not mere supply of equipments items like Surgeon Control Panel, Pendants Anaesthesia &amp; Surgeon, OT Light (LED) with Camera etc are imported items for which procurement only starts after approval of final drawing which is a time consuming process.</p> <p>We hereby request to kindly increase the completion schedule to 5 months.</p>	Tender terms & conditions prevail.
2.	<p>Volume-I, Pre-Qualification Criteria; Page no. 5 &amp; 6, Clause no. 2.2</p> <p>(ii) Experience of having successfully completed similar work during last 7 years ending last day of month previous to the one in which tenders are invited 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.</p> <p style="text-align: center;">or</p> <p>Two similar* completed works costing not less than the amount equal to 50% of the estimated cost.</p>	Tender terms & conditions prevail.

	<p style="text-align: center;">or</p> <p>One similar* completed work costing not less than the amount equal to 80% of the estimated cost.</p> <p>*Similar nature of works means successful completion of supply, Installation, testing and commissioning of Medical Gas Manifold System in India.</p> <p>We request the clause of the tender should be further clarified as following :</p> <p>“In case, the qualifying experience certificate is from Private sector/ Charitable Hospital, the vendor should submit the TDS certificate as a proof of having executed the said work.”</p> <p>We are enclosing herewith the snippets for your kind reference &amp; duly marked at Page no. 1 to 5 from Government Agencies NBCC (India) Ltd. and Project Implementation Unit, Gujarat about the TDS Certificate, which is clearly defined. Please refer to M/s HSCC Shimla Tender clarification papers taking the cognizance of this and had issued Amendment.</p> <p>The TDS certificate should be of same value as supporting document which will prove the authenticity of Private work completed. There should not be any room that any bidder plays with the private works, therefore the TDS Certificate should be made mandatory for the justification of the order value against the experience of similar nature of work.</p> <p>Kindly refer to HSCC AIIMS Rajkot Tender Page 3 Sr. 3, Minimum Eligibility Criteria</p> <p>"iii) The past experience in similar nature of work should be supported by certificates issued by the client's organisation. In case the work experience is of Private sector the completion certificate shall be supported with copies of Letter of Award and copies of Corresponding TDS Certificates. Value of work will be considered equivalent to the amount of TDS Certificates."</p>	
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	We therefore request to kindly clarify regarding private works.	
3.	<p>Common</p> <p>Performance of the Company</p> <p>We request, to kindly ensure that the bidder who has executed the similar nature of work in Government Hospital through Government Agencies such as M/s HSCC (India) Ltd., M/s HLL Lifecare Ltd, UPRNN, NBCC etc., the performance of the company should be satisfactory.</p>	Tender terms & conditions prevail.
4.	<p>Volume-III, SCC, Page no. 12, 12.4 Bid Security,</p> <p>Document Fee and EMD are exempted for NSIC registered Firm.</p> <p>As you are aware, to promote Micro Small &amp; Medium Enterprise, Government of India had given the facility of NSIC Certification to the manufacturing firm. This may please be noted that this clause is only applicable for manufacturing of goods in India and not for procurement of Imported goods. If we go through the tender Specifications, there are imported items like Medical Air, Medical Vacuum, AGSS/WAGD, Control Panel O2, N2O, CO2, Outlets etc.</p> <p>We request this clause should be suitably amended so that NO Bidder could take undue advantage of NSIC Certification and all the bidders should be treated on single platform. This has been done in earlier HSCC Sangrur, Shimla &amp; Raebareli Tenders.</p>	This clause is only applicable for manufacturing of goods in India and not in the case of procurement of Imported goods
5.	<p>Volume-I, Pre-Qualification Criteria; Page no. 5 &amp; 6, Clause no. 2.2</p> <p>Amendment no. V dated 01.03.2019</p> <p>(ii) Experience of having successfully completed similar work during last 7 years ending last day of month previous to the one in which tenders are invited should be either of the following :</p> <p>Three similar* completed works costing not less than the amount equal to 40% of the estimated</p>	Tender terms & conditions prevail.

	<p>cost. or Two similar* completed works costing not less than the amount equal to 50% of the estimated cost. or One similar* completed work costing not less than the amount equal to 80% of the estimated cost.</p> <p>*Similar nature of works means successful completion of Supply, Installation, Testing &amp; commissioning of Modular Operation Theatres &amp; AHU.</p> <p>We are surprised you have not included AHU in similar works.</p> <p>Sir based on some in-experienced bidder, you have not included "AHU" from similar work. You would appreciate 25% of the cost of the tender is of AHU. AHU is most important part of MOT. AHU is a central air conditioner station that handles the air that, usually, supplied into the buildings by the ventilation ductwork (connected to the AHU).</p> <p>Therefore for better planning, execution, ducting, co-ordination, completion and after sales service; Single Vendor for MOT &amp; AHU is appropriate, so that there shouldn't be any blame game later on when the fault/problem occurs. It will be the responsibility of single vendor.</p> <p>Please appreciate, Post Graduate Institute is one of India's Premier Government Institute. It will be a hassle free work on being a Single Vendor for MOT &amp; AHU.</p> <p>We therefore earnestly request M/s HSCC to kindly Amend and clarify that "Similar nature of works means successful completion of Supply, Installation, Testing &amp; commissioning of Modular Operation Theatres &amp; AHU" or else delete the AHU work from the tender if M/s HSCC do not term it as Similar nature of Work.</p>	
6.	Volume-III, Page no. 38 & 39 SCC Clause no. 21.0 Terms of Payment	Tender terms & conditions prevail.

For purposes of estimating the contract value of works executed for certificate of payment, the following norms shall be followed:

1) 70% of the BOQ contract rates on delivery of equipments at site after inspection and passing on pro-data basis.

2) 20% of BOQ contract rates on satisfactory take over certificate by client after erection and installation, testing and commissioning of equipments.

3) 10 % of BOQ contract rates after successful completion of trial run of 30 days from the date of handover to the client.

We request, the payment terms should be amended as:

1) 75% of the BOQ contract rates on delivery of equipments at site after inspection and passing on pro-data basis.

2) 20% of BOQ contract rates on satisfactory take over certificate by M/s HSCC after Installation.

3) 5% of BOQ contract rates after successful completion of trial run of 30 days from the date of handover to the client on pro-data basis.

Please appreciate, as soon as the work order is received , the contractor has to initiate necessary actions for successful execution of the work order. Among the very important, Contractor need to place order to the respective suppliers along with 100% payment because supplier will not wait till the completion of the project. Here it is worthwhile to say that contractor do not get 75% payment as 5% amount gets hold for Security from Running Bill; 1% towards Labour Cess; 10% towards Performance Bank Guarantee, 12% towards GST & in case of delay in supply liquidated damages. After going through all this in the netshell a contractor gets approximately 50% amount at the initial stage. It is just a eye wash that 70% payment will be released on pro-rata basis. Initial payment is the lifeline to the contractors, which gives relief up to some extent.

	<p>With regard to 20% payment, please be noted that commissioning and handing over has no difference. After commissioning by our experience, most of the sites are not ready for handover such as civil work is not complete, hospital staff is not available etc etc. Without any fault of contractor, he need to wait for the payment till the handing over takes place. Therefore this payment should be at the time of erection, installation.</p> <p>You will appreciate GST tax regime has been implemented since 1st July 2017 by Govt. of India. With the implementation of this system vis-a-vis in current payment structure, most of the projects gets delayed or handing over not taken by the Hospital/Institute/Department; because of this the balance payment gets stuck for longer duration. This way the liquidity get blocked and input credit is lost.</p>	
7.	<p>Volume-II, Page 18, GCC Clause 21.0 Insurance of Works and Contractor's Equipment &amp; elsewhere in the tender</p> <p>The Contractor shall, without limiting his or the Employer's obligations and responsibilities under Clause 21.1 (a) to (b), insure:</p> <p>We request, the insurance of works and contractor's equipment should be upto Final Acceptance Certificate (FAC) only. Please appreciate once all the BOQ Items are received, installed, commissioned &amp; tested before you/end user, the insurance should end here. After FAC, the Defect Liability Period/warranty period starts which is guaranteed by bidder for its performance and against any manufacturing defect. During DLP/ warranty period the bidder shall rectify/replace the equipment without any cost for smooth functioning.</p> <p>In other words, Erection All Risks (EAR) Insurance can be provided upto FAC.</p> <p>So, we request the insurance should be upto Final Acceptance Certificate only and not beyond it.</p>	Tender terms & conditions prevail.
8.	<p>Common</p> <p>Performance of the Company</p>	Tender terms & conditions prevail.

	<p>We request, to kindly ensure that the bidder who has executed the similar nature of work who has worked in Government Hospital through Government Agencies such as M/s HSCC (India) Ltd., M/s HLL Lifecare Ltd, UPRNN, NBCC etc., the performance of the company should be satisfactory.</p>	
9.	<p>Page no. 1 &amp; 2, Technical Specification 1.</p> <p>WALL &amp; CEILING SYSTEM: The internal surface of the wall and ceiling of operation theatre should be sprayed with anti-bacterial paint (Factory internal test report to be submitted)</p> <p>We request the painting should be done at site only as during installation, welding needs to be done for joining the panels which leaves spots. To give smooth &amp; smudge free finish, the painting should always done at site.</p>	<p>Painting should be done at site.</p>
10.	<p>Page no. 8 of MOT Specifications</p> <p>Boom Suspension for 26"-32" HD Progressive Scan Flat Panel HD Monitor</p> <p>Sir, you have already asked Monitor at Sr.No. 21 OT LIGHT(LED) WITH CAMERA AND MONITOR- (Imported).</p> <p>The monitor with Boom Suspension leads to duplication. Therefore Monitor should be deleted from Specifications as well as BOQ.</p>	<p>The word "Imported" is deleted.</p> <p>One Monitor shall be integrated with OT light and another Monitor shall be fitted with the Surgeon Pendant instead of Boom suspension.</p>
11.	<p>Page no. 10 of MOT Specifications</p> <p>14 DIGITAL DISPLAY PANEL (WORK STATION)-(IMPORTED)</p> <p>We request the Touch Screen should be in the range of 21 to 32 inch wide instead of 29-32 inch wide screen monitor as the standard size of the monitor is 21 to 32 inch with manufacturers.</p>	<p>21-32 inch wide screen monitor shall be fitted.</p>
12.	<p>Page No.19- SCC</p> <p><b>Performance Security</b> – The successful bidder shall furnish to the consultant a security in the form of a bank Guarantee from Nationalized / Scheduled bank for an amount of 10 percent of the contract sum</p>	<p>The successful bidder shall furnish Performance security in the form of a bank Guarantee/DD from Nationalized / Scheduled bank for an amount of 5% (Five percent) of the contract sum.</p>

	<p>To be amended as</p> <p><b>Performance Security</b> – The successful bidder shall furnish to the consultant a security in the form of a bank Guarantee from Nationalized / Scheduled bank for an amount of 5 percent of the contract sum.</p> <p>You are requested you to kindly reduce the performance Security from 10% to 5%, since you are going to deduct retention money @ 10% from Contractor RA Bills as mentioned in clause 60.5 of Volume-II, GCC of Tender documents</p>	
13.	<p><b>Modular OT</b></p> <p><b>Doors and Frames</b></p> <p>The door and control should comply current IEE regulations and BS 7971 standard.</p> <p>The Door and control comply to EN 61000-6-3, EN 61000-6-2 standard.</p> <p>The Door and control comply to EN 61000-6-3, EN 61000-6-2 instead of BS 7971 standard. Kindly amend the same.</p>	<p>The door and control should comply current IEE regulations/BS 7971 standard/ EN 61000-6-3, EN 61000-6-2.</p>
14.	<p><b>Modular OT</b></p> <p><b>Doors and Frames</b></p> <p>Air tightness 99.99% at a pressure 50</p> <p>To be amended as</p> <p>Air tightness 99.99% at a pressure 75KPa</p> <p>In High Pressure Laminate, Doors shall have Air tightness 99.99% at a pressure 75KPa instead of 100KPa. You are requested to kindly amend the same.</p>	<p>Air tightness 99.99% at a pressure 75KPa.</p>
15.	<p><b>Modular OT</b></p> <p><b>Doors and Frames</b></p> <p>Door opening handle should be strong and sturdy and the handle material should be AISI-304 Stainless steel and glossy finish.</p>	<p>Door opening handle should be strong and sturdy and the handle material should be AISI-304 Stainless steel and Glossy/MATT finish.</p>

	<p>To be amended as</p> <p>Door opening handle should be strong and sturdy and the handle material should be AISI-304 Stainless steel and glossy / MATT finish.</p> <p>The Door handles are provided with MATT finish instead of Glossy Finish. Request you to kindly amend the same accordingly.</p>	
16.	<p><b>Modular OT</b></p> <p><b>Doors and Frames</b></p> <p>The thickness of the door core should be 48mm. The top layer on both sides is high Pressure laminate of size 6mm. The overall thickness of the door shutter is 55-60 mm.</p> <p>To be amended as</p> <p>Overall Thickness of Door should be 55- 60 mm. HPL Layer on both sides should be 4mm each side, i.e total 8 mm.</p> <p>The thickness mentioned of HPL Laminate seems to be company specific. You are requested to amend the same.</p>	<p>Overall Thickness of Door should be 55- 60 mm. HPL Layer on both sides should be 4mm each side, i.e total 8 mm.</p>
17.	<p><b>Modular OT</b></p> <p><b>Peripheral Light cum Clean Room Luminaries</b></p> <p>Peripheral lights (Size-2ft x 2ft)</p> <p>To be amended as</p> <p>Peripheral lights - Size-2ft x 2ft / 581mm x 581mm approx.</p> <p>The size of Peripheral Light mentioned is specific. Kindly amend the same accordingly.</p>	<p>Peripheral lights - Size-2ft x 2ft / 581mm x 581mm approx.</p>
18.	<p><b>Modular OT</b></p> <p><b>Peripheral Light cum Clean Room Luminaries</b></p> <p>The Non-hygroscopic high glow low power LED based peripheral lights having high quality</p>	<p>The Non-hygroscopic high glow low power LED based peripheral lights having high quality low wattage LED lighting system and optical antiglare system for adjustable light distribution.</p>

	<p>low wattage LED lighting system with highly spectacular anodized Aluminum reflectors and optical antiglare system for adjustable light distribution.</p> <p>To be amended as</p> <p>The Non-hygroscopic high glow low power LED based peripheral lights having high quality low wattage LED lighting system and optical antiglare system for adjustable light distribution.</p> <p>Since the Peripheral Lights are LED based, it does not required reflectors. You are requested to kindly delete the words “anodized Aluminum reflectors” from the technical specifications of tender.</p>	
19.	<p><b>Modular OT</b></p> <p><b>Peripheral Light cum Clean Room Luminaries</b></p> <p>The reflectors should be of high quality, cleanable and non deteriorating.</p> <p><b>To be deleted</b></p> <p>Since the Peripheral Lights are LED based, it does not required reflectors. You are requested to kindly delete this line from tender specifications.</p>	The reflectors are deleted
20.	<p><b>Modular OT</b></p> <p><b>Surgeon Control Panel</b></p> <p>The medical graded <b>touch screen</b> typed Control Panel should be 19” -22” medical grade color TFT/LED panel stationed in the sterile field.</p> <p>To be amended as</p> <p>The medical graded <b>touch screen</b> typed Control Panel should be 32” medical grade color TFT/LED panel stationed in the sterile field.</p> <p>The Size of Surgeon Control Panel needs to be revised to 32” for better visibility.</p>	The medical graded <b>touch screen</b> typed Control Panel should be 19” -32” medical grade color TFT/LED panel stationed in the sterile field.
21.	<p><b>Modular OT</b></p>	The Control Panel should comprise of following

	<p><b>Surgeon Control Panel</b></p> <p>The Control Panel should comprise of following services in addition to Instruction board, Communication interfaces- both audio and video.</p> <p>To be amended as</p> <p>The Control Panel should comprise of following services in addition to Instruction board, Communication interfaces- audio only</p> <p>Communication interface with video option seems to be company specific and may not be available with other manufacturers. You are requested to kindly delete the same.</p>	<p>services in addition to Instruction board, Communication interfaces- audio only</p>
22.	<p><b>Modular OT</b></p> <p><b>Surgeon Control Panel</b></p> <p>Hands free telephone set with memory card</p> <p>To be amended as</p> <p>Hands free telephone set with Call Log list</p> <p>Hands free telephone set is provided with Call Log instead of a memory card. You are requested to kindly amend the same.</p>	<p>Hands free telephone set with Call Log list</p>
23.	<p><b>Modular OT</b></p> <p><b>Surgeon Control Panel</b></p> <p>Temperature and Humidity Indicator with Controller</p> <p>To be amended as</p> <p>Temperature and Humidity Indicator with Set points</p> <p>Kindly amend Temperature and Humidity Indicator with Controller with Temperature and Humidity Set points.</p>	<p>Temperature and Humidity Indicator with Controller with Temperature and Humidity Set points</p>
24.	<p><b>Modular OT</b></p> <p><b>Surgeon Control Panel</b></p>	<p>Tender terms &amp; conditions prevail.</p>

	<p>Temperature and Humidity Indicator should indicate temperature and humidity of the theatre and the display shall be digital and bright and the height not less than 30mm. The temperature and Humidity controller should be connected to the Air Conditioning system.</p> <p>To be amended as</p> <p>Temperature and Humidity Indicator should indicate temperature and humidity of the theatre and the display shall be digital and bright and the height not less than 30mm. The temperature and Humidity Indicator should be connected to the Air Conditioning system for On/ OFF Operations</p> <p>Temperature and Humidity Indicator will be connected to Air Conditioning System for On/Off Operations instead of controlling it. Request you to kindly amend the same.</p>	
25.	<p><b>Modular OT</b></p> <p><b>Surgeon Control Panel</b></p> <p>Surgeon Control Panel should be BIS/European CE with 4 digit notified no./ USFDA</p> <p>To be amended as</p> <p>Surgeon Control Panel should be BIS/European CE Declaration of Conformity/ USFDA</p> <p>Surgeon Control Panels are covered under Class 1 Medical Devices, hence it will be provided with Declaration of conformity instead of 4 digit notified body number. You are requested to kindly amend the same accordingly.</p>	<p>Surgeon Control Panel should be BIS/European CE Declaration of Conformity/ USFDA</p>
26.	<p><b>Modular OT</b></p> <p><b>Surgeon Pendant- Double Arm</b></p> <p>Should have at least 3 shelves of minimum 700-750mm size</p> <p>To be amended as</p> <p>Should have at least 3 shelves of minimum size: 560 mm x 460mm</p>	<p>Should have at least 3 shelves of minimum 700-750mm size/ 560 mm x 460mm</p>

	The size of shelves mentioned is company specific. You are requested to kindly amend and mention the same.	
27.	<p><b>Modular OT</b></p> <p><b>Points to be added:</b></p> <ol style="list-style-type: none"> <li>1) Size of Service Head Column should be minimum 1500 mm or above to accommodate Gas Outlets and Electricals.</li> <li>2) For Safety reasons, Pendant should have NIST Connection for Individual Gases, Manometer for each gas.</li> <li>3) Shelf of Pendant should be made of High quality Bio- Clean Material.</li> <li>4) Pendant should have Anti-microbial Coating / Power coating.</li> </ol> <p>For Safety reasons, all the Electrical Sockets should have Earthing Points.</p>	<ol style="list-style-type: none"> <li>1) Size of Service Head Column should be minimum 1500 mm or above to accommodate Gas Outlets and Electricals.</li> <li>2) For Safety reasons, Pendant should have NIST Connection for Individual Gases, Manometer for each gas.</li> <li>3) Tender terms &amp; conditions prevail.</li> <li>4) Pendant should have Anti-microbial Coating / Power coating.</li> </ol> <p>For Safety reasons, all the Electrical Sockets should have Earthing Points.</p>
28.	<p><b>Modular OT</b></p> <p><b>Anesthesia Boom System (Double Arm)</b></p> <p>The arms may be fitted with pneumatic / Electromagnetic brakes to prevent inadvertent movement.</p> <p>To be amended as</p> <p>The arms may be fitted with Electromagnetic brakes to prevent inadvertent movement.</p> <p>Please note that the Pneumatic Brakes are outdated technology maybe amended with “Electromagnetic Brakes Only”. You are requested to kindly amend the same.</p>	Tender terms & conditions prevail.
29.	<p><b>Modular OT</b></p> <p><b>Points to be added:</b></p> <ol style="list-style-type: none"> <li>1) Size of Service Head Column should be minimum 1500 mm or above to accommodate Gas Outlets and Electricals.</li> <li>2) For Safety reasons, Pendant should have NIST Connection for Individual Gases,</li> </ol>	<ol style="list-style-type: none"> <li>1) Size of Service Head Column should be minimum 1500 mm or above to accommodate Gas Outlets and Electricals.</li> <li>2) For Safety reasons, Pendant should have NIST Connection for Individual Gases,</li> </ol>

	<p>Manometer for each gas.</p> <p>3) Shelf of Pendant should be made of High quality Bio- Clean Material.</p> <p>4) Pendant should have Anti-microbial Coating / Power coating.</p> <p>For Safety reasons, all the Electrical Sockets should have Earthing Points.</p>	<p>Manometer for each gas.</p> <p>3) Tender terms &amp; conditions prevail.</p> <p>4) Pendant should have Anti-microbial Coating / Power coating.</p> <p>For Safety reasons, all the Electrical Sockets should have Earthing Points.</p>
30.	<p><b>Modular OT</b></p> <p><b>Hatch Box</b></p> <p>610mmx610mm size</p> <p>To be amended as</p> <p>600 mm x 600 mm size</p> <p>The size of Hatch Box mentioned is not as per standard requirement for MOT's. You are requested to kindly amend the same to "600 mm x 600mm"</p>	<p>Size of Hatch Box shall be 600 mm x 600mm."</p>
31.	<p><b>Modular OT</b></p> <p><b>Writing Board</b></p> <p>Writing Board as operating list Board of size-1000x700x60deep</p> <p>To be amended as</p> <p>Writing Board as operating list Board of size-940 x 640 x 50 mm.</p> <p>The size of writing board mentioned is not as per standard requirement for MOT's. We request you to kindly revise the size of writing board to 940 x 640 x 50 mm. Kindly amend and mention the same.</p>	<p>Writing Board as operating list Board of size-1000x700x60deep/940 x 640 x 50 mm.</p>
32.	<p><b>Modular OT</b></p> <p><b>Digital Display Panel (Workstation)</b></p> <p>To be added:</p> <p><b>Points to be added:</b></p> <p>1) It should be provided with Touch with</p>	<p>1) It should be provided with Touch with integrated PC unit and Keyboard.</p> <p>2) Monitor should be flush mounted with suitable frame in MOT wall. Frame should be</p>

	<p>integrated PC unit and Keyboard.</p> <ol style="list-style-type: none"> <li>2) Monitor should be flush mounted with suitable frame in MOT wall. Frame should be openable/serviceable for service.</li> <li>3) HD Flat Panel Monitor should be done according to IP 54 regulations.</li> <li>4) ESG Safety Glass Cover shall be used to protect the Monitor Screen from breakage and for additional Safety of Patient.</li> <li>5) For Optimizing the quality of Pictures, kindly add it should have DicomPreset, BT 709,BT 1886 features.</li> <li>6) Video Connectors on the back side of Monitor is to be hide by Cover of Aluminum from the Back side.</li> <li>7) Monitor should be integrated by Command Bar shown in the front side of Monitor.</li> <li>8) It should be Medical Grade Class-1 Device and European CE Declaration of Conformity/USFDA to be provided.</li> </ol> <p>The technical specifications mentioned of Digital Display Panel is very less. You are requested to kindly add the following specifications.</p>	<p>openable/serviceable for service.</p> <ol style="list-style-type: none"> <li>3) HD Flat Panel Monitor should be done according to IP 54 regulations.</li> <li>4) ESG Safety Glass Cover shall be used to protect the Monitor Screen from breakage and for additional Safety of Patient.</li> <li>5) For Optimizing the quality of Pictures, kindly add it should have DicomPreset, BT 709,BT 1886 features.</li> <li>6) Video Connectors on the back side of Monitor is to be hide by Cover of Aluminum from the Back side.</li> <li>7) Monitor should be integrated by Command Bar shown in the front side of Monitor.</li> <li>8) It should be Medical Grade Class-1 Device and BIS/European CE Declaration of Conformity/USFDA to be provided.</li> </ol>
33.	<p><b>Modular OT</b></p> <p><b>Storage unit</b></p> <p>The dimensions of each storage unit should not be less than height 1800mm x width 900mm x depth 350mm.</p> <p>To be amended as</p> <p>The dimensions of each storage unit should not be less than 2100 x 1200 x 350mm</p> <p>The size of Storage unit mentioned is not as per standard requirement of MOT's. You are requested to kindly amend the same accordingly.</p>	<p>The dimensions of each storage unit should not be less than height 1800mm x width 900mm x depth 350mm or 2100 x 1200 x 350mm</p>

<p>34.</p>	<p><b>Modular OT</b></p> <p><b>Distribution Board Electrical Wiring, Conduiting With Fixtures Inside The Operation Theatre</b></p> <p>Electric Distribution Panel, Transformers, Mains, Relays, Circuit protective equipment, for all circuits of Operation theatre shall be installed in the remote cabinet.</p> <p>To be amended as</p> <p>Electric Distribution Panel, Mains, Relays, Circuit protective equipment, for all circuits of Operation theatre shall be installed in the remote cabinet.</p> <p>Transformers are not installed in Electrical Distribution Panel. You are requested to kindly delete the same.</p>	<p>Electric Distribution Panel, Mains, Relays, Circuit protective equipment, for all circuits of Operation theatre shall be installed in the remote cabinet.</p>
<p>35.</p>	<p><b>Modular OT</b></p> <p><b>Scrub Station</b></p> <p>The scrub sink should be provided with a front access panel which should be easily removed for access to the water controlled valve, waste connections, stoppers and strainers.</p> <p>To be amended as</p> <p>The scrub sink should be provided with a front access panel which should be easily removed for access to the water controlled valve, waste connections.</p> <p>Stoppers and Strainers are not mandatory requirement of Scrub Station. We request you to kindly delete the same from tender specifications.</p>	<p>Requirement of Stoppers and Strainers is not mandatory.</p>
<p>36.</p>	<p><b>Modular OT</b></p> <p><b>Scrub Station</b></p> <p>Knee operated switch should be provided additionally.</p> <p>To be amended as</p>	<p>Knee / Foot operated switch should be provided</p>

	<p>Knee / Foot operated switch should be provided additionally.</p> <p>For MOT's Foot Operated switch are recommended instead of knee operated. You are requested to kindly amend the same accordingly</p>	
37.	<p><b>Modular OT</b></p> <p><b>View Window</b></p> <p>Toughened glasses of thickness 6 mm</p> <p>To be amended as</p> <p>Toughened glasses of thickness 5 / 6mm</p> <p>The minimum thickness of Toughened glass required for View window is 5mm thick. You are requested to kindly amend the same to 5 / 6 mm thick.</p>	<p>Toughened glasses of thickness 5 / 6mm</p>
38.	<p><b>Modular OT</b></p> <p><b>View Window</b></p> <p>The window blinds should be operated with Remote Control and manually.</p> <p>To be amended as</p> <p>The window blinds should be operated with Remote Control / manually.</p> <p>Window blinds are operated via remote control / manual operations.</p>	<p>The window blinds should be operated with Remote Control / manually.</p>
39.	<p><b>Modular OT</b></p> <p><b>OT Light</b></p> <p>BIS/European CE /US FDA certified</p> <p>To be amended as</p> <p>BIS/European CE Declaration of Conformity with ISO 13485 /US FDA certified</p> <p>You are requested to kindly amend the quality certification for OT Light to "European CE Declaration of Conformity with ISO 13485 instead of European CE".</p>	<p>BIS/European CE Declaration of Conformity with ISO 13485 /US FDA certified</p>
40.	<p><b>Modular OT</b></p>	<p>Light head Diameter : 30-</p>

	<p><b>OT Light</b></p> <p>Light head Diameter : 30-35/ 800mm × 720mm of size</p> <p>To be amended as</p> <p>Light head Diameter : 30-35/ 800mm × 720mm of size / 679 x 708 mm</p> <p>The size of Light Head diameter mentioned is company specific. You are requested to kindly add size: 679 x 708 mm</p>	<p>35/ 800mm × 720mm of size / 679 x 708 mm</p>
41.	<p><b>Modular OT</b></p> <p><b>OT Light</b></p> <p>Operating/Storage Humidity : 10 – 95%</p> <p>To be amended as</p> <p>Operating/Storage Humidity : 5 – 95%</p> <p>Company specific specifications needs to be amended.</p>	<p>Operating/Storage Humidity : 5 – 95%</p>
42.	<p><b>Modular OT</b></p> <p><b>Camera System</b></p> <p>Signal to Noise Ratio (S/N Ratio) :&lt;50 dB</p> <p>To be amended as</p> <p>Signal to Noise Ratio (S/N Ratio) :&gt;50 dB</p> <p>It seems there is some typographical error in the Noise Ratio mentioned in the specifications. Usually, it is greater than 50 dB instead of less than 50 dB. Request you to kindly correct the symbol mentioned in the specifications.</p>	<p>Signal to Noise Ratio (S/N Ratio) :&gt;50 dB</p>
43.	<p><b>Modular OT</b></p> <p><b>Camera System</b></p> <p>Power Supply: Through Light / max. 12W.</p> <p>To be amended as</p>	<p>Power Supply: Through Light / max. 4.8 W to 12W</p>

	<p>Power Supply: Through Light / max. 4.8 W</p> <p>Power Supply should be revised to 4.8W to 12 W. Kindly amend the same.</p>	
44.	<p><b>Modular OT</b></p> <p><b>Camera System</b></p> <p>Video Output : HD, S-Video &amp; Composite Video</p> <p>To be amended as</p> <p>Video Output : HDSDI, DVI, Y/C, F-BAS(PAL /NTSC)</p> <p>S-Video &amp; Composite Video are outdated technology and are not used as on date. You are requested to kindly amend the Video Output to HDSDI, DVI, Y/C, F-BAS(PAL /NTSC)</p>	<p>Video Output : HDSDI, DVI, Y/C, F-BAS(PAL /NTSC)S-Video &amp; Composite Video are outdated technology and are not used as on date. You are requested to kindly amend the Video Output to HDSDI, DVI, Y/C, F-BAS(PAL /NTSC)</p>
45.	<p><b>Modular OT</b></p> <p><b>Recording System</b></p> <p>Recording system shall be offered separately. Recording system should be full HD monitor LCD 19"touch screen or more.</p> <p>To be amended as</p> <p>Recording system shall be offered separately. Recording system should be full HD monitor LCD 32" touch screen or more.</p> <p>For better visibility, size of Recording System must be revised to 32" touch screen or more.</p>	<p>Recording system shall be offered separately. Recording system should be full HD monitor LCD 19"-32" touch screen or more.</p>
46.	<p><b>Modular OT</b></p> <p><b>Points to be added:</b></p> <ol style="list-style-type: none"> <li>1) Should be flushed mounted on the OT wall with suitable frame.</li> <li>2) Recording system should be integrated streaming with streaming.</li> <li>3) ESG Safety Glass Cover is must to protect the Monitor Screen from breakage and for</li> </ol>	<ol style="list-style-type: none"> <li>1) Should be flushed mounted on the OT wall with suitable frame.</li> <li>2) Recording system should be integrated streaming with streaming.</li> <li>3) ESG Safety Glass Cover is must to protect the Monitor Screen from breakage and for</li> </ol>

	<p>Additional Safety of Patient.</p> <p>4) Recording system should be done according to IP 54 regulations.</p> <p>5) Recording System should have P-CAP Multi-Touch Display.</p> <p>6) It should be Medical Grade Class-1 Device and European CE Declaration of Conformity to be provided/USFDA</p> <p>The Technical Specifications mentioned for are very less for an imported item. You are requested to kindly add the following points.</p>	<p>Additional Safety of Patient.</p> <p>4) Recording system should be done according to IP 54 regulations.</p> <p>5) Recording System should have P-CAP Multi-Touch Display.</p> <p>6) It should be Medical Grade Class-1 Device and BIS/European CE Declaration of Conformity to be provided/USFDA</p>
47.	<p><b>Modular OT</b></p> <p><b>Points to be added:</b></p> <p>Surgeon Control Panel, Digital Display Panel and Recording System should be of same make.</p> <p>To be amended as</p> <p>For better compatibility and connectivity, kindly add the lines “Surgeon Control Panel, Digital Display Panel and Recording System should be of same make”</p>	<p>Tender terms &amp; conditions prevail.</p>
48.	<p><b>Modular OT</b></p> <p><b>Turnkey Works</b></p> <p><b>To be deleted from the specifications:</b></p> <p>Interior decoration, air conditioning duct, furniture and other related works.</p> <p><b>Electrical cabling</b> of IS : 1554 standard and wiring as per IS : 732 standard from MDB (Single point source) to Electric Distributional Panel and to the corresponding load points</p> <p>• <b>Earthing system</b> of Control panel and other electrical instrument and accessories in the OT area <b>as per standard guidelines of BIS (Latest edition)</b>. All cable trenches and railings should be made wherever required.</p> <p>Providing fixing of <b>Electrical Gadgets</b> like ELCB, MCB, Light Points, Power points, in the</p>	<p>Tender terms &amp; conditions prevail.</p>

	<p>Modular OT room. • Number of fans, power point, bulbs/tube light. Apart from these supplies to the individual equipments with ELCB &amp; MCB for Modular OT • Installation of MCB, ACB, ELCB &amp; OCB of Havell/Siemens/L&amp;T/Schneider etc for Control Panel for Modular OT.</p> <p>Ref. Turnkey works, our work is confined to minor cutouts, demolition minor reconstruction work only and not interior decoration, air conditioning duct, furniture and other related works.</p> <p>You are therefore requested to kindly delete the same from technical specifications of tender.</p>	
49.	<p><b>MID-END Modular OT</b></p> <p><b>Wall &amp; Ceiling Construction</b></p> <p>Silicon sealant to provide seamless operating room.</p> <p>To be amended as</p> <p>Silicon sealant / Metallic Putty to provide seamless operating room</p> <p>Please note joints shall be filled by using metallic Filler putty / Silicon sealant to provide seamless operating room.</p> <p>The above point is considered for Modular OT specifications and not in MID- End OT Specifications. Kindly amend the same accordingly.</p>	<p><b>MID-END Modular OT</b></p> <p>Silicon sealant / Metallic Putty to provide seamless operating room</p>
50.	<p><b>MID-END Modular OT</b></p> <p><b>Wall &amp; Ceiling Construction</b></p> <p>Suspension elements : Suspension bracket with tension spring</p> <p>To be amended as</p> <p>Suspension elements: Suspension bracket with tension spring / Threaded Rod.</p>	<p>Suspension elements: Suspension bracket with tension spring / Threaded Rod.</p>

	<p>Suspension is provided through threaded rod with bracket instead of tension spring to maintain the strength of wall and Ceiling panel. Kindly amend the line and mention “Suspension bracket with tension spring / threaded rod”.</p> <p>The above point is considered for Modular OT specifications and not in MID- End OT Specifications. Kindly amend the same accordingly.</p>	
51.	<p><b>MID-END Modular OT</b></p> <p><b>Doors and Frames</b></p> <p>All motors used should be DC brushless motors with essential isolation from mains.</p> <p>To be amended as</p> <p>All motors used should be DC brushless / PMDC motors with essential isolation from mains.</p> <p>Motor shall be PMDC Motor instead of DC Brushless Motor. Kindly amend the same.</p> <p>The above point is considered for Modular OT specifications and not in MID- End OT Specifications. Kindly amend the same accordingly.</p>	<p>All motors used should be DC brushless / PMDC motors with essential isolation from mains.</p>
52.	<p><b>MID-END Modular OT</b></p> <p><b>Doors and Frames</b></p> <p>The door and control should comply current IEE regulations and BS 7971 standard.</p> <p>To be amended as</p> <p>The Door and control comply to EN 61000-6-3, EN 61000-6-2 standard.</p> <p>The Door and control comply to EN 61000-6-3, EN 61000-6-2 instead of BS 7971 standard. Kindly amend the same.</p>	<p>The door and control should comply current IEE regulations and BS 7971 standard or comply to EN 61000-6-3, EN 61000-6-2 standard.</p>
53.	<p><b>MID-END Modular OT</b></p> <p><b>Doors and Frames</b></p> <p>Air tightness 99.99% at a pressure 100KPa</p>	<p>Air tightness 99.99% at a pressure 75KPa</p>

	<p>To be amended as</p> <p>Air tightness 99.99% at a pressure 75KPa</p> <p>In High Pressure Laminate, Doors shall have Air tightness 99.99% at a pressure 75KPa instead of 100KPa. You are requested to kindly amend the same.</p>	
54.	<p><b>MID-END Modular OT</b></p> <p><b>Doors and Frames</b></p> <p>The thickness of the door core should be 48mm. The top layer on both sides is high Pressure laminate of size 6mm. The overall thickness of the door shutter is 55-60 mm</p> <p>To be amended as</p> <p>Overall Thickness of Door should be 55- 60 mm. HPL Layer on both sides should be 4mm each side, i.e total 8 mm.</p> <p>The thickness mentioned of HPL Laminate seems to be company specific. You are requested to amend the same.</p>	<p>Overall Thickness of Door should be 55- 60 mm. HPL Layer on both sides should be 4mm each side, i.e total 8 mm.</p>
55.	<p><b>MID-END Modular OT</b></p> <p><b>Doors and Frames</b></p> <p>Door opening handle should be strong and sturdy and the handle material should be AISI-304 Stainless steel and glossy finish.</p> <p>To be amended as</p> <p>Door opening handle should be strong and sturdy and the handle material should be AISI-304 Stainless steel and glossy / MATT finish.</p> <p>The Door handles are provided with MATT finish instead of Glossy Finish. Request you to kindly amend the same accordingly.</p>	<p>Door opening handle should be strong and sturdy and the handle material should be AISI-304 Stainless steel and glossy / MATT finish.</p>
56.	<p><b>MID-END Modular OT</b></p> <p><b>Peripheral Light cum Clean Room Luminaries</b></p>	<p>Peripheral lights - Size-2ft x 2ft / 581mm x 581mm approx.</p>

	<p>Peripheral lights (Size-2ft x 2ft)</p> <p>To be amended as</p> <p>Peripheral lights - Size-2ft x 2ft / 581mm x 581mm approx.</p> <p>The size of Peripheral Light mentioned is specific. Kindly amend the same accordingly.</p>	
57.	<p><b>MID-END Modular OT</b></p> <p><b>Peripheral Light cum Clean Room Luminaries</b></p> <p>The Non-hygroscopic high glow low power LED based peripheral lights having high quality low wattage LED lighting system with highly spectacular anodized Aluminum reflectors and optical antiglare system for adjustable light distribution.</p> <p>To be amended as</p> <p>The Non-hygroscopic high glow low power LED based peripheral lights having high quality low wattage LED lighting system and optical antiglare system for adjustable light distribution.</p> <p>Since the Peripheral Lights are LED based, it does not required reflectors. You are requested to kindly delete the words “anodized Aluminum reflectors” from the technical specifications of tender.</p>	<p>The Non-hygroscopic high glow low power LED based peripheral lights having high quality low wattage LED lighting system and optical antiglare system for adjustable light distribution.</p>
58.	<p><b>MID-END Modular OT</b></p> <p><b>Peripheral Light cum Clean Room Luminaries</b></p> <p>The reflectors should be of high quality, cleanable and non deteriorating.</p> <p>To be deleted</p> <p>Since the Peripheral Lights are LED based, it does not required reflectors. You are requested to kindly delete this line from tender specifications.</p>	<p>Reflectors - Deleted</p>
59.	<p><b>MID-END Modular OT</b></p>	<p>The <b>touch screen</b> typed</p>

	<p><b>Surgeon Control Panel</b></p> <p>The <b>touch screen</b> typed Control Panel should be 19” medical grade color TFT/LED panel stationed in the sterile field.</p> <p>To be amended as</p> <p>The <b>touch screen</b> typed Control Panel should be 32” medical grade color TFT/LED panel stationed in the sterile field.</p> <p>The size of Surgeon Control Panel needs to be revised to 32” for better visibility.</p>	<p>Control Panel should be 19”-32” medical grade color TFT/LED panel stationed in the sterile field.</p>
60.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Control Panel</b></p> <p>The Control Panel should comprise of following services in addition to Instruction board, Communication interfaces- both audio and video.</p> <p>To be amended as</p> <p>The Control Panel should comprise of following services in addition to Instruction board, Communication interfaces- audio only</p> <p>Communication interface with video option seems to be company specific and may not be available with other manufacturers. You are requested to kindly delete the same.</p>	<p>The Control Panel should comprise of following services in addition to Instruction board, Communication interfaces- audio only</p>
61.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Control Panel</b></p> <p>Hands free telephone set with memory card</p> <p>To be amended as</p> <p>Hands free telephone set with Call Log list</p> <p>Hands free telephone set is provided with Call Log instead of a memory card. You are requested to kindly amend the same.</p>	<p>Hands free telephone set with Call Log list</p>
62.	<p><b>MID-END Modular OT</b></p>	<p>Temperature and Humidity Indicator with Controller</p>

	<p><b>Surgeon Control Panel</b> Temperature and Humidity Indicator with Controller</p> <p>To be amended as</p> <p>Temperature and Humidity Set points</p> <p>Kindly amend Temperature and Humidity Indicator with Controller with Temperature and Humidity Set points.</p>	with Temperature and Humidity Set points.
63.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Control Panel</b></p> <p>Temperature and Humidity Indicator should indicate temperature and humidity of the theatre and the display shall be digital and bright and the height not less than 30mm. The temperature and Humidity controller should be connected to the Air Conditioning system.</p> <p>To be amended as</p> <p>Temperature and Humidity Indicator should indicate temperature and humidity of the theatre and the display shall be digital and bright and the height not less than 30mm. The temperature and Humidity Indicator should be connected to the Air Conditioning system for On/ OFF Operations.</p> <p>Temperature and Humidity Indicator will be connected to Air Conditioning System for On/Off Operations instead of controlling it. Request you to kindly amend the same.</p>	Tender terms & conditions prevail.
64.	<p><b>MID-END Modular OT</b></p> <p><b>11a) Anesthetic Pendant (Type-I)</b></p> <p>One swivel arm of 1000 mm and another of 800 mm. The swivel arms move only horizontally and the length in fully stretched position is <math>(1000+800) = 1800\text{mm} \pm 10\%</math></p> <p>To be amended as</p> <p>Kindly add more Arm size also, i.e</p>	Tender terms & conditions prevail.

	<p>900 + 800 mm / 1000mm + 800mm / 900mm + 900mm / 800mm + 800mm</p> <p>The size mentioned on 1000mm + 800mm is fixed type. Kindly add variation in the size of pendant as mentioned.</p>	
65.	<p><b>MID-END Modular OT</b></p> <p><b>Anesthetic Pendant (Type-II)</b></p> <p>One swivel arm of 1000 mm and another of 800 mm.</p> <p>The swivel arms move only horizontally and the length in fully stretched position is (1000+800) = 1800mm±10%</p> <p>To be amended as</p> <p>Kindly add more Arm size also, i.e</p> <p>900 + 800 mm / 1000mm + 800mm / 900mm + 900mm / 800mm + 800mm</p> <p>The size mentioned on 1000mm + 800mm is fixed type. Kindly add variation in the size of pendant as mentioned.</p>	Tender terms & conditions prevail.
66.	<p><b>MID-END Modular OT</b></p> <p><b>Anesthetic Pendant (Type-II)</b></p> <p>To be added:</p> <p>The arms may be fitted with Electromagnetic brakes to prevent inadvertent movement.</p> <p>Being an imported item, brakes of Arm must be mentioned. You are requested to kindly add electromagnetic brakes.</p>	The arms may be fitted with Pneumatic/Electromagnetic brakes to prevent inadvertent movement.
67.	<p><b>MID-END Modular OT</b></p> <p><b>Anesthetic Pendant (Type-II)</b></p> <p>Should be BIS/European CE/US FDA certified</p> <p>To be amended as</p>	Should be BIS/European CE 4 digit notified body number /US FDA certified

	<p>Should be BIS/European CE 4 digit notified body number /US FDA certified</p> <p>For quality purpose, we recommend amending European CE to European CE 4 digit notified body number.</p>	
68.	<p><b>MID-END Modular OT</b></p> <p><b>Points to be added:</b></p> <ol style="list-style-type: none"> <li>1) Size of Service Head Column should be minimum 1500 mm or above to accommodate Gas Outlets and Electricals.</li> <li>2) For Safety reasons, Pendant should have NIST Connection for Individual Gases, Manometer for each gas.</li> <li>3) Shelf of Pendant should be made of High quality Bio- Clean Material.</li> <li>4) Pendant should have Anti-microbial Coating / Power coating.</li> </ol> <p>For Safety reasons, all the Electrical Sockets should have Earthing Points.</p>	<ol style="list-style-type: none"> <li>1) Size of Service Head Column should be minimum 1500 mm or above to accommodate Gas Outlets and Electricals.</li> <li>2) For Safety reasons, Pendant should have NIST Connection for Individual Gases, Manometer for each gas.</li> <li>3) Tender terms and condition prevail</li> <li>4) Pendant should have Anti-microbial Coating / Power coating.</li> </ol> <p>For Safety reasons, all the Electrical Sockets should have Earthing Points.</p>
69.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Pendant (Type-1)</b></p> <p>Should have at least 3 shelves of minimum 750mm size</p> <p>To be amended as</p> <p>Should have at least 3 shelves of minimum 750mm / 400 x 300 mm size</p> <p>The size of shelf mentioned is fixed type. Request you to kindly amend the same.</p>	<p>Tender terms &amp; conditions prevail.</p>
70.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Pendant (Type-1)</b></p> <p>One swivel arm of 1000 mm and another of 800 mm.</p> <p>The swivel arms move only horizontally and the length in fully stretched position is (1000+800)</p>	<p>Tender terms &amp; conditions prevail.</p>

	<p>= 1800mm±10%</p> <p>To be amended as</p> <p>Kindly add more sizes also, i.e</p> <p>900 + 800 mm / 1000mm + 800mm / 900mm + 900mm / 800mm + 800mm</p> <p>The size mentioned on 1000mm + 800mm is fixed type. Kindly add variation in the size of pendant as mentioned.</p>	
71.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Pendant (Type-II)</b></p> <p>One swivel arm of 1000 mm and another of 800 mm.</p> <p>The swivel arms move only horizontally and the length in fully stretched position is (1000+800) = 1800mm±10%</p> <p>To be amended as</p> <p>Kindly add more Arm size also, i.e</p> <p>900 + 800 mm / 1000mm + 800mm / 900mm + 900mm / 800mm + 800mm</p> <p>The size mentioned on 1000mm + 800mm is fixed type. Kindly add variation in the size of pendant as mentioned.</p>	Tender terms & conditions prevail.
72.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Pendant (Type-II)</b></p> <p>Should have atleast 3 shelves of minimum 750mm / 560 mm x 460 mm size</p> <p>To be amended as</p> <p>The size of shelf mentioned is fixed type. Request you to kindly amend the same.</p>	Tender terms & conditions prevail.
73.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Pendant (Type-II)</b></p>	The arms may be fitted with Electromagnetic brakes to prevent inadvertent movement.

	<p><b>To be added:</b></p> <p>The arms may be fitted with Electromagnetic brakes to prevent inadvertent movement.</p> <p>Being an imported item, brakes of Arm must be mentioned. You are requested to kindly add electromagnetic brakes.</p>	
74.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Pendant (Type-II)</b></p> <p>Should be BIS/European CE/US FDA certified</p> <p>To be amended as</p> <p>Should be BIS/European CE 4 digit notified body number /US FDA certified</p> <p>For quality purpose, we recommend amending European CE to European CE 4 digit notified body number.</p>	<p>Should be BIS/European CE 4 digit notified body number /US FDA certified.</p>
75.	<p><b>MID-END Modular OT</b></p> <p><b>Surgeon Pendant (Type-II)</b></p> <p><b>Points to be added:</b></p> <p>1) Size of Service Head Column should be minimum 1500 mm or above to accommodate Gas Outlets and Electricals.</p> <p>2) For Safety reasons, Pendant should have NIST Connection for Individual Gases, Manometer for each gas.</p> <p>3) Shelf of Pendant should be made of High quality Bio- Clean Material.</p> <p>4) Pendant should have Anti-microbial Coating / Power coating.</p> <p>For Safety reasons, all the Electrical Sockets should have Earthing Points.</p>	<p>1) Size of Service Head Column should be minimum 1500 mm or above to accommodate Gas Outlets and Electricals.</p> <p>2) For Safety reasons, Pendant should have NIST Connection for Individual Gases, Manometer for each gas.</p> <p>3) Tender terms &amp; conditions prevail.</p> <p>4) Pendant should have Anti-microbial Coating / Power coating.</p> <p>For Safety reasons, all the Electrical Sockets should have Earthing Points.</p>
76.	<p><b>MID-END Modular OT</b></p> <p><b>Hatch Box</b></p> <p>610mmx610mm size</p> <p>To be amended as</p>	<p>Tender terms &amp; conditions prevail.</p>

	<p>600 mm x 600 mm size</p> <p>The size of Hatch Box mentioned is not as per standard requirement for MOT's. You are requested to kindly amend the same to "600 mm x 600mm"</p>	
77.	<p><b>MID-END Modular OT</b></p> <p><b>Writing Board</b></p> <p>Writing Board as operating list Board of size-1000x700x60deep</p> <p>To be amended as</p> <p>Writing Board as operating list Board of size-940 x 640 x 50 mm.</p> <p>The size of writing board mentioned is not as per standard requirement for MOT's. We request you to kindly revise the size of writing board to 940 x 640 x 50 mm. Kindly amend and mention the same.</p>	<p>Writing Board as operating list Board of size-1000x700x60deep/940 x 640 x 50 mm.</p>
78.	<p><b>MID-END Modular OT</b></p> <p><b>Storage unit</b></p> <p>The dimensions of each storage unit should not be less than height 1800mm x width 900mm x depth 350mm.</p> <p>To be amended as</p> <p>The dimensions of each storage unit should not be less than 2100 x 1200 x 350mm</p> <p>The size of Storage unit mentioned is not as per standard requirement of MOT's. You are requested to kindly amend the same accordingly.</p>	<p>The dimensions of each storage unit should not be less than height 1800mm x width 900mm x depth 350mm/2100 x 1200 x 350mm.</p>
79.	<p><b>MID-END Modular OT</b></p> <p><b>OT Light</b></p> <p>BIS/European CE /US FDA certified</p> <p>To be amended as</p>	<p>BIS/European CE Declaration of Conformity with ISO 13485 /US FDA certified.</p>

	<p>BIS/European CE Declaration of Conformity with ISO 13485 /US FDA certified</p> <p>You are requested to kindly amend the quality certification for OT Light to “European CE Declaration of Conformity with ISO 13485 instead of European CE”.</p>	
80.	<p><b>MID-END Modular OT</b></p> <p><b>OT Light</b></p> <p>Light head Diameter : 30-35/ 800mm × 720mm of size</p> <p>To be amended as</p> <p>Light head Diameter : 30-35/ 800mm × 720mm of size / 679 x 708 mm</p> <p>The size of Light Head diameter mentioned is company specific. You are requested to kindly add size: 679 x 708 mm</p>	<p>Light head Diameter : 30-35/ 800mm × 720mm of size / 679 x 708 mm</p>
81.	<p><b>MID-END Modular OT</b></p> <p><b>OT Light</b></p> <p>Operating/Storage Humidity : 10 – 95%</p> <p>To be amended as</p> <p>Operating/Storage Humidity : 5 – 95%</p> <p>Company specific specifications needs to be amended.</p>	<p>Operating/Storage Humidity : 5 – 95%</p>
82.	<p><b>MID-END Modular OT</b></p> <p><b>Camera System</b></p> <p>Signal to Noise Ratio (S/N Ratio) :&lt;50 dB</p> <p>To be amended as</p> <p>Signal to Noise Ratio (S/N Ratio) :&gt;50 dB</p> <p>It seems there is some typographical error in the Noise Ratio mentioned in the specifications. Usually, it is greater than 50 dB instead of less than 50 dB. Request you to kindly correct the symbol mentioned in the specifications.</p>	<p>Signal to Noise Ratio (S/N Ratio) :&gt;50 dB</p>
83.	<p><b>MID-END Modular OT</b></p>	<p>Power Supply: Through</p>

	<p><b>Camera System</b></p> <p>Power Supply: Through Light / max. 12W.</p> <p>To be amended as</p> <p>Power Supply: Through Light / max. 4.8 W</p> <p>Power Supply should be revised to 4.8W to 12 W. Kindly amend the same.</p>	Light / max. 4.8W to 12W.
84.	<p><b>MID-END Modular OT</b></p> <p><b>Camera System</b></p> <p>Video Output : HD, S-Video &amp; Composite Video</p> <p>To be amended as</p> <p>Video Output : HDSDI, DVI, Y/C, F-BAS(PAL /NTSC)</p> <p>S-Video &amp; Composite Video are outdated technology and are not used as on date. You are requested to kindly amend the Video Output to HDSDI, DVI, Y/C, F-BAS(PAL /NTSC)</p>	Video Output : HDSDI, DVI, Y/C, F-BAS(PAL /NTSC)S-Video & Composite Video are outdated technology and are not used as on date. You are requested to kindly amend the Video Output to HDSDI, DVI, Y/C, F-BAS(PAL /NTSC)
85.	<p><b>MID-END Modular OT</b></p> <p><b>Scrub Station</b></p> <p>The scrub sink should be provided with a front access panel which should be easily removed for access to the water controlled valve, waste connections, stoppers and strainers.</p> <p>To be amended as</p> <p>The scrub sink should be provided with a front access panel which should be easily removed for access to the water controlled valve, waste connections.</p> <p>Stoppers and Strainers are not mandatory requirement of Scrub Station. We request you to kindly delete the same from tender specifications.</p>	Stoppers and strainers are not mandatory.
86.	<p><b>MID-END Modular OT</b></p>	Knee / Foot operated switch should be provided

	<p><b>Scrub Station</b></p> <p>Knee operated switch should be provided additionally.</p> <p>To be amended as</p> <p>Knee / Foot operated switch should be provided additionally.</p> <p>For MOT's Foot Operated switch are recommended instead of knee operated. You are requested to kindly amend the same accordingly</p>	<p>additionally.</p>
<p>87.</p>	<p><b>MID-END Modular OT</b></p> <p><b>Turnkey Works</b></p> <p><b>To be deleted from the specifications:</b></p> <p>interior decoration, air conditioning duct, furniture and other related works.</p> <p><b>Electrical cabling</b> of IS : 1554 standard and wiring as per IS : 732 standard from MDB (Single point source) to Electric Distributional Panel and to the corresponding load points</p> <ul style="list-style-type: none"> <li>• <b>Earthing system</b> of Control panel and other electrical instrument and accessories in the OT area <b>as per standard guidelines of BIS(Latest edition)</b>. All cable trenches and railings should be made wherever required.</li> </ul> <p>Providing fixing of <b>Electrical Gadgets</b> like ELCB, MCB, Light Points, Power points, in the Modular OT room. • Number of fans, power point, bulbs/tube light. Apart from these supplies to the individual equipments with ELCB &amp; MCB for Modular OT • Installation of MCB, ACB, ELCB &amp; OCB of Havell/Siemens/L&amp;T/Schneider etc for Control Panel for Modular OT.</p> <p>Ref. Turnkey works, our work is confined to minor cutouts, demolition minor reconstruction work only and not interior decoration, air conditioning duct, furniture and other related works.</p> <p>You are therefore requested to kindly delete the</p>	<p>Tender terms &amp; conditions prevail.</p>

	same from technical specifications of tender.	
88.	<p><b>Minor Operation Theatre</b></p> <p><b>Ceiling Construction</b></p> <p>Silicon sealant to provide seamless operating room.</p> <p>To be amended as</p> <p>Silicon sealant / Metallic Putty to provide seamless operating room</p> <p>Please note joints shall be filled by using metallic Filler putty / Silicon sealant to provide seamless operating room.</p> <p>The above point is considered for Modular OT specifications and not in Minor OT Specifications. Kindly amend the same accordingly.</p>	Silicon sealant / Metallic Putty to provide seamless operating room
89.	<p><b>Minor Operation Theatre</b></p> <p><b>Ceiling Construction</b></p> <p>Suspension elements : Suspension bracket with tension spring</p> <p>To be amended as</p> <p>Suspension elements: Suspension bracket with tension spring / Threaded Rod.</p> <p>Suspension is provided through threaded rod with bracket instead of tension spring to maintain the strength of wall and Ceiling panel. Kindly amend the line and mention “Suspension bracket with tension spring / threaded rod”.</p> <p>The above point is considered for Modular OT specifications and not in MID- End OT Specifications. Kindly amend the same accordingly.</p>	Suspension elements: Suspension bracket with tension spring / Threaded Rod.
90.	<p><b>Minor Operation Theatre</b></p> <p><b>Swing Door</b></p>	Both way opening double leaf door of 40 / 44 mm thick door shutters

	<p>Both way opening double leaf door of 44 mm thick door shutters</p> <p>To be amended as</p> <p>Both way opening double leaf door of 40 / 44 mm thick door shutters</p> <p>44mm thick door is company specific. Kindly amend the same to 40-44mm thick Door</p>	
91.	<p><b>Minor Operation Theatre</b></p> <p><b>Swing Door</b></p> <p>2.5/1.2 mm thick Al/GPSP powder coated door frames</p> <p>To be amended as</p> <p>2.5/1.2 mm thick Al/GPSP powder coated / SS door frames</p> <p>Swing Door comes with SS Frame instead of Al/GPSP powder coated. You are requested to kindly add the same.</p>	2.5/1.2 mm thick Al/GPSP powder coated / SS door frames
92.	<p><b>Minor Operation Theatre</b></p> <p><b>Swing Door</b></p> <p>Totally flush with the wall panels</p> <p>To be amended as</p> <p>Flush at one end only</p> <p>Kindly amend the same</p>	Tender terms & conditions prevail.
93.	<p><b>Minor Operation Theatre</b></p> <p><b>Swing Door</b></p> <p>Hardware like push plates, handles, door closure, double glazed view glass of std size, hinges and provision for concealed automatic door bottom Drop seal etc.</p> <p>To be amended as</p> <p>Hardware like double glazed view glass of std size and hinges etc.</p>	Hardware like double glazed view glass of standard size and hinges etc.

	<p>Swing Doors don't come with push plates, handles, Door closure and provision for concealed automatic door bottom Drop seal etc. These are not the requirement of swing Doors. You are requested to kindly delete the same.</p>	
94.	<p><b>Minor Operation Theatre</b></p> <p><b>Hinged Door</b></p> <p>Totally flush with the wall panels</p> <p>To be amended as</p> <p>Flush at one end only</p> <p>Kindly amend the same</p>	<p>Tender terms &amp; conditions prevail.</p>
95.	<p><b>Minor Operation Theatre</b></p> <p><b>Peripheral Light</b></p> <p>The LED lamp of size 2ft.x 2ft with highly spectacular anodized Aluminum reflectors and optical antiglare system</p> <p>To be amended as</p> <p>The LED lamp of size 2ft.x 2ft / 581mm x 581mm approx with optical antiglare system.</p> <p>The size of Peripheral Light mentioned is specific. Kindly amend the same accordingly.</p> <p>Since the Peripheral Lights are LED based, it does not required reflectors. You are requested to kindly delete the words "anodized Aluminum reflectors" from the technical specifications of tender.</p>	<p>The LED lamp of size 2ft.x 2ft / 581mm x 581mm approx with optical antiglare system.</p>
96.	<p><b>Minor Operation Theatre</b></p> <p><b>Peripheral Light</b></p> <p>The reflectors should be of high quality, cleanable and non deteriorating.</p> <p>To be deleted</p> <p>Since the Peripheral Lights are LED based, it does not required reflectors. You are requested</p>	<p>Reflectors - Deleted</p>

	to kindly delete this line from tender specifications.	
97.	<p><b>Minor Operation Theatre</b></p> <p><b>Distribution Board Electrical Wiring, Conduiting With Fixtures Inside The Operation Theatre</b></p> <p>Transformers, Mains, Relays, Circuit protective equipment, for all circuits of Operation theatre shall be installed in the remote cabinet.</p> <p>To be amended as</p> <p>Mains, Relays, Circuit protective equipment, for all circuits of Operation theatre shall be installed in the remote cabinet.</p> <p>Transformers are not installed in Electrical Distribution Panel for OT's. You are requested to kindly delete the same.</p>	Tender terms & conditions prevail.
98.	<p><b>Minor Operation Theatre</b></p> <p><b>Scrub Station</b></p> <p>The scrub sink should be provided with a front access panel which should be easily removed for access to the water controlled valve, waste connections, stoppers and strainers.</p> <p>To be amended as</p> <p>The scrub sink should be provided with a front access panel which should be easily removed for access to the water controlled valve, waste connections.</p> <p>Stoppers and Strainers are not mandatory requirement of Scrub Station. We request you to kindly delete the same from tender specifications.</p>	Stoppers and Strainers are not mandatory
99.	<p><b>Minor Operation Theatre</b></p> <p><b>Scrub Station</b></p> <p>Knee operated switch should be provided additionally.</p> <p>To be amended as</p>	Knee / Foot operated switch should be provided additionally.

	<p>Knee / Foot operated switch should be provided additionally.</p> <p>For MOT's Foot Operated switch are recommended instead of knee operated. You are requested to kindly amend the same accordingly</p>	
100.	<p><b>Minor Operation Theatre</b></p> <p><b>OT Light</b></p> <p>BIS/European CE /US FDA certified</p> <p>To be amended as</p> <p>BIS/European CE Declaration of Conformity with ISO 13485 /US FDA certified</p> <p>You are requested to kindly amend the quality certification for OT Light to “European CE Declaration of Conformity with ISO 13485 instead of European CE”.</p>	<p>BIS/European CE Declaration of Conformity with ISO 13485 /US FDA certified</p>
101.	<p><b>Minor Operation Theatre</b></p> <p><b>OT Light</b></p> <p>Light head Diameter : 30-35/ 800mm × 720mm of size</p> <p>To be amended as</p> <p>Light head Diameter : 30-35/ 800mm × 720mm of size / 679 x 708 mm</p> <p>The size of Light Head diameter mentioned is company specific. You are requested to kindly add size: 679 x 708 mm</p>	<p>Light head Diameter : 30-35/ 800mm × 720mm of size / 679 x 708 mm</p>
102.	<p><b>Minor Operation Theatre</b></p> <p><b>OT Light</b></p> <p>Operating/Storage Humidity : 10 – 95%</p> <p>To be amended as</p> <p>Operating/Storage Humidity : 5 – 95%</p> <p>Company specific specifications needs to be amended.</p>	<p>Operating/Storage Humidity : 5 – 95%</p>
103.	<p><b>Turnkey Works</b></p>	<p>Tender terms &amp; conditions prevail.</p>

	<p><b>To be deleted from the specifications:</b></p> <p>Interior decoration, air conditioning duct, furniture and other related works.</p> <p><b>Electrical cabling</b> of IS : 1554 standard and wiring as per IS : 732 standard from MDB (Single point source) to Electric Distributional Panel and to the corresponding load points.</p> <p>Providing fixing of <b>Electrical Gadgets</b> like ELCB, MCB, Light Points, Power points, in the Modular OT room. • Number of fans, power point, bulbs/tube light. Apart from these supplies to the individual equipments with ELCB &amp; MCB for Modular OT • Installation of MCB, ACB, ELCB &amp; OCB of Havell/Siemens/L&amp;T/Schneider etc for Control Panel for Modular OT.</p> <p>Ref. Turnkey works, our work is confined to minor cutouts, demolition minor reconstruction work only and not interior decoration, air conditioning duct, furniture and other related works.</p> <p>You are therefore requested to kindly delete the same from technical specifications of tender.</p>	
104.	<p><b>HVAC</b></p> <p><b>Tender BOQ –OT AHUs</b></p> <p>Planning, Design, Supply, installation, testing and commissioning of sheet metal sectionalized construction draw thru type in double skin construction. Each Air Handling Units shall be with pre and fine filter section with pre and fine filters, mixing chamber, minimum 2 bend PVC eliminators, chilled water cooling coil, hot water coil (AHRI/ Eurovent certified) of copper tube &amp; Al fins construction, squirrel cage induction motor with VFD starters (IP-54/55) with bypass starter mounted on AHU/wall for supply and return air fans, motor efficiency class IE-3 suitable for 415+/- 10% V, 50 Hz 3 Phase AC supply suitably designed for variable frequency drives. Backward curved plug type direct driven supply air and return air fans. fine filters section , suitable pan type humidifier</p>	Tender terms & conditions prevail.

	<p>with humidifier section, suitable vibration isolation arrangement.</p> <p>To be amended as</p> <p>Planning, Design, Supply, installation, testing and commissioning of sheet metal sectionalized construction draw thru type in double skin construction. Each Air Handling Units shall be with pre and fine filter section with pre and fine filters, mixing chamber, minimum 2 bend PVC eliminators, chilled water cooling coil, hot water coil (AHRI/ Eurovent certified) of copper tube &amp; Al fins construction, squirrel cage induction motor <b>with starter</b> with bypass starter mounted on AHU/wall for supply and return air fans, motor efficiency class IE-3 suitable for 415+/- 10% V, 50 Hz 3 Phase AC supply suitably designed for variable frequency drives. Backward curved <b>belt and pulley driven</b> supply air and return air fans. fine filters section, suitable vibration isolation arrangement.</p> <p>Kindly amend VFD starters to starters only, since the AHU's installed in Modular OTs are required with constant CFM (Air Flow), however incase of VFD Starters, Air flow Flow changes by the VFD. Hence, it needs amendment.</p> <p>Please note in plug type Fan, motor and Fan is a single unit, incase of faulty, complete needs to replaced, however in case of Backward curved fan with Pully and belt driven, incase of motor is faulty, only motor needs to replaced.</p> <p>PAN Type humidifiers are not recommended for Plain Areas as it is only required for Hilly Areas, where humidity is low. Kindly make necessary amendment.</p>	
105.	<p><b>HVAC</b></p> <p><b>Fan Section</b></p> <p>The fan shall be selected for a fan speed not exceeding 1000 rpm for fan dia of more than 350 mm and fan outlet velocity shall not exceed 1800 fpm.</p>	Tender terms & conditions prevail.

	<p>To be amended as</p> <p>The fan shall be selected for a fan speed, have optimum fan selection for fan dia of more than 350 mm and fan outlet velocity shall not exceed 1800 fpm.</p> <p>Fan Speed may impact the size of AHU. If Fan Size increases, AHU size will increase around 1.5 times and may take more space. Hence it should be deleted.</p>	
106.	<p><b>List of Approved Makes</b></p> <p><b>Air Handling Unit</b> - Carrier / Caryaire /ZECO / System air /VTS / Flaktwood / Unique /Waves / Edgtech</p> <p>To be amended as</p> <p><b>Air Handling Unit</b> - Carrier / Caryaire /ZECO / System air /VTS / Flaktwood / Unique /Waves / Edgtech/ Ravi Aircon</p> <p>Kindly add one more reputed makes for the AHU's , i.e Ravi Aircon</p>	Tender terms and conditions prevail

**The bid submission date is extended from 11.03.2020 to 13.03.2020 and bid security should be valid for 180 days from the date of original bid submission ie. from 04.03.2020.**

All other terms & conditions remain unchanged.

Sr. Chief General Manager -I, HSCC (I) Ltd.  
For and behalf of Director, PGIMER, Chandigarh