

Amendment -I

Subject: Supply, Installation, Testing & Commissioning of Medical Gas Manifold System for All India Institute of Medical Sciences (AIIMS), Raebareli

IFB No : HSCC/SES/MGMS/AIIMS/Raebareli/2020 Date :15.01.2020

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 |
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| 1. | | |
| 2. | <p>Volume-I,Page no. 3, Period of Completion: 4 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 Control Panels & Manifold for O2, N2O & CO2, Medical Air Plant, Medical Vacuum Plant, AGSS Plant, Area & Master Alarm, All types Outlets, AVSU, Line Isolation valves, High Pressure Tubes 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 6 months.</p> | Tender terms & conditions prevail. |
| 3. | <p>Volume-I, Pre-Qualification Criteria; Page no. 5 & 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</p> | Tender terms & conditions prevail. |

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| | <p>than the amount equal to 50% of the estimated cost.</p> <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 & 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. We are also enclosing herewith M/s HSCC clarification papers taking the cognizance of this and had issued Amendment M/s HSCC MOT Shimla Tender.</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>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.</p> | |
| 4. | <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</p> | Tender terms & conditions prevail. |

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| | <p>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> | |
| 5. | <p>Volume-3, SCC, Page no. 12, 12.3 Bid Security, Document Fee and EMD are exempted for NSIC registered Firm.</p> <p>As you are aware, to promote Micro Small & 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 such OT Light, Pendant 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 had been done in earlier HSCC Sangrur, Shimla & Raebareli Tenders.</p> | Tender terms & conditions prevail. |
| 6. | <p>Volume-III, Page no. 18 GCC Clause no. 21.0 Terms of Payment</p> <p>For purposes of estimating the contract value of works executed for certificate of payment, the following norms shall be followed:</p> <p>1) 70% of the BOQ contract rates on delivery of equipments at site after inspection and passing on pro-data basis.</p> <p>2) 20% of BOQ contract rates on satisfactory take over certificate by client after erection and installation, testing and commissioning of equipments on pro-data basis.</p> <p>3) 10 % 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.</p> <p>We request, the payment terms should be amended as:</p> <p>1) 75% of the BOQ contract rates on delivery of</p> | Tender terms & conditions prevail. |

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| | <p>equipments at site after inspection and passing on pro-data basis.</p> <p>2) 20% of BOQ contract rates on satisfactory take over certificate by M/s HSCC after Installation.</p> <p>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.</p> <p>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> | |
| 7. | <p>Volume-II, Page 18, GCC Clause 21.0 Insurance of Works and Contractor's Equipment & elsewhere in the tender</p> <p>The Contractor shall, without limiting his or the Employer's obligations and responsibilities under Clause 20.1 to 20.4, 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 & 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</p> | Tender terms & conditions prevail. |

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| | Acceptance Certificate only and not beyond it. | |
| 8. | <p>Common</p> <p>USFDA/European CE Certified with 4 digit notified body number or American ETL/UL Listed.</p> <p>We understand these certification means Imported, the place from where the goods are mined, cultivated, grown, manufactured, produced or processed and Outside India.</p> <p>Accordingly the certification of the product applies i.e. if it is UL Listed certification same shall be applicable to American Manufacturer only and European CE Certification same shall be applicable to European Manufacturer only. We request this criteria should be strictly applied and maintained.</p> <p>It is further requested that the European CE Certified/UL listed Criteria for NFPA-99 STANDARD or ANY OTHER STANDARD SHOULD BE "CERTIFICATION, WHEREVER APPLICABLE FOR ALL THE ITEMS of MEDICAL GAS".</p> | Tender terms & conditions prevail. |
| 9. | <p>Page no. 2</p> <p>1.2 Oxygen Manifold Supply System (without Cylinder) The Manifold should be hydraulically tested at 3500 psig.</p> <p>Please note as per NFPA standard, Manifolds are designed with a maximum inlet pressure of 3000 psig instead 3500 psig. You are requested to kindly amend the same and mention "The Manifold should be hydraulically tested at 3000 psig". The working pressure is 2000 LPM, we are giving 1.1/2 time more pressure.</p> | The Manifold should be hydraulically tested > 3000 psig". |
| 10. | <p>Page no. 3</p> <p>1.3 Emergency Manifold Supply System (without Cylinder) The Manifold should be hydraulically tested at 3500 psig.</p> <p>Please note as per NFPA standard, Manifolds are designed with a maximum inlet pressure of 3000 psig instead 3500 psig. You are requested to kindly</p> | The Manifold should be hydraulically tested > 3000 psig". |

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| | <p>amend the same and mention “The Manifold should be hydraulically tested at 3000 psig”. The working pressure is 2000 LPM, we are giving 1.1/2 time more pressure.</p> | |
| 11. | <p>Page no. 9</p> <p>2.2 Nitrous Oxide Manifold (without Cylinder) The Manifold should be hydraulically tested at 3500 psig.</p> <p>Please note as per NFPA standard, Manifolds are designed with a maximum inlet pressure of 3000 psig instead 3500 psig. You are requested to kindly amend the same and mention “The Manifold should be hydraulically tested at 3000 psig”.</p> | <p>The Manifold should be hydraulically tested > 3000 psig”.</p> |
| 12. | <p>Page no. 10</p> <p>2.3 Emergency Nitrous Oxide Supply System (without Cylinder) The Manifold should be hydraulically tested at 3500 psig.</p> <p>Please note as per NFPA standard, Manifolds are designed with a maximum inlet pressure of 3000 psig instead 3500 psig. You are requested to kindly amend the same and mention “The Manifold should be hydraulically tested at 3000 psig”.</p> | <p>The Manifold should be hydraulically tested > 3000 psig”.</p> |
| 13. | <p>Page no. 10</p> <p>3. Medical and Surgical Air System (Package Unit - Imported)</p> <p>- Variation of + 10% is missing</p> <p>Please appreciate throughout the worldwide , the Models and the Capacity (LPM) of Air System are Pre-Defined by Manufacturers. Air System is not manufactured as per the requirement. Based on the Pre-Defined Air System, the Models are selected as per the requirement. Like in M/s HSCC (India) Ltd. Tender no. HSCC/SES/ MGMS/ 2018 (IIT Kharagpur) Amendment no. IV dated 02.02.2018; Tender no. HSCC/SES/MGMS/PGI/ SANGRUR/ 2019 Dated 09.01.2019 (PGI Sangrur); Tender no. HSCC/SES/MGMS /SSB/Shimla/2019 Dated : 31.01.2019; Tender no. HSCC/SES/MGMS /AIIMS/Raebareli/2019 Dated : 29.03.2019 variation of +/- 10% is given & like wise and M/s HLL Tenders such as SIX AIIMS for MGPS etc, + 10% variation is given. This +/- 5% / 10%</p> | <p>Variation of +/- 5% is accepted</p> |

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| | <p>variation is mentioned for ease in procurement.</p> <p>We therefore request, the Air Compressor plant capacity should be defined with variation of +/- 10% and same should be as per Standard.</p> | |
| 14. | <p>Page no. 11</p> <p>Stage 3: Bacteria filter for removing particles down to 0.01 micron.Purity should be tested as per the American Pharmacopeia / European Pharmacopeia standard</p> <p>We request the testing should be American Pharmacopeia/ European Pharmacopeia/Third Party such as TUV etc, which will be more appropriate.</p> | <p>Purity testing should be American Pharmacopeia/ European Pharmacopeia/Third Party such as TUV/SGS/Lloyd etc,</p> |
| 15. | <p>Page no. 12</p> <p>3. Medical & Surgical Air System (Package Unit - Imported)</p> <p>3.2 Vertical Air Receiver Capacity shall be atleast 50% (+ 5%)</p> <p>The Medical & Surgical Vertical Air Receiver as per Tender Specifications is atleast 50% (+ 5%). Please recall Tender no. HSCC/SES/MGMS /SSB/Shimla/2019, wherein as per Amendment-II dated 08.03.2019, it is mentioned "Should be as per corresponding standards quoted by the bidder'- The capacity shall be as per NFPA 99/HTM 02 01/ISO- 7396-1/EN/ DIN standards". The same is done AIIMS Jai Prakash Narayan Apex Trauma Center Medical Gas Pipeline tender, AIIMS Nagpur, Kalyani, Guntur.</p> <p>We therefore request the Vertical Air Receiver Capacity should be as per standard.</p> | <p>The Air Receiver shall be at least 50% (+ 5%) of primary plant capacity or Should be as per standards as mentioned in the tendered specifications.</p> |
| 16. | <p>Page no. 13</p> <p>4. VACUUM SYSTEMS (Package unit – imported)</p> <p>- Variation of + 10% is missing</p> <p>Please appreciate throughout the worldwide, the Models and the Capacity (LPM) of Vacuum System are Pre-Defined by Manufacturers. Vacuum System is not manufactured as per the requirement. Based on the Pre-Defined Vacuum System, the Models are selected as per the</p> | <p>Variation of +/- 5% is accepted.</p> |

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| | <p>requirement. Like in M/s HSCC (India) Ltd. Tender no. HSCC/SES/MGMS/2018 Amendment no. IV dated 02.02.2018 (IIT Kharagpur); Tender no. HSCC/SES/MGMS /SSB/Shimla/2019 Dated : 31.01.2019; Tender no. HSCC/SES/MGMS /AIIMS/Raebareli/ 2019 Dated : 29.03.2019 variation of +/- 10% is given and M/s HLL such as SIX AIIMS Tender no. HLL/PCD/ PMSSY/AIIMS-II/14-RT-01/15-16 dated 31.12.2015 for MGPS etc, +/- 10% variation is given. This +/- 10% variation is mentioned for ease in procurement.</p> <p>We therefore request, the Vacuum plant capacity should be defined with variation of + 10% and same should be as per Standard.</p> | |
| 17. | <p>Page no. 13</p> <p>4. VACUUM SYSTEMS (Package unit – imported)</p> <p>4.4 Bacterial Filters</p> <p>Bacteria Filters does not come in NFPA-99 Standard. The Bacteria Filter is in built in the vacuum system. Bacteria Filters comes in HTM Standard. We therefore request to kindly take a note of it and issue necessary amendment.</p> | Should be as per standard as mentioned in the tender document. |
| 18. | <p>Page no. 13</p> <p>4. Vacuum System</p> <p>4.2 Vertical Receiver Capacity shall be atleast 50% (+ 5%)</p> <p>The Vacuum Receiver as per Tender Specifications is atleast 100% (+ 5%) of primary plant capacity. Please recall Tender no. HSCC/SES/MGMS /SSB/Shimla/2019, wherein as per Amendment-II dated 08.03.2019, it is mentioned "Should be as per corresponding standards quoted by the bidder" - The capacity shall be as per NFPA 99/HTM 02 01/ISO- 7396-1/EN/ DIN standards". The same is done AIIMS Jai Prakash Narayan Apex Trauma Center Medical Gas Pipeline tender.</p> <p>We therefore request the Vertical Air Receiver Capacity should be as per standard.</p> | Tender terms & conditions prevail. |
| 19. | <p>Page no. 15, 16</p> <p>8. DISTRIBUTION PIPING</p> <p>8.1 Piping specifications</p> | Tender terms & conditions prevail. |

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| | <p>We request the Medical Grade Copper Pipe should be Kite Mark. Here, Lloyd is 3rd party Inspection Agency whereas Kite Mark product and service quality certification mark which is owned and operated by the British Standards (BSI Group). It is a voluntary mark of manufacturers and service industries use to demonstrate safety and reliability. The product has been proven to meet the agreed high standard. We therefore request Copper Pipe should be kite marked.</p> | |
| 20. | <p>Page no. 17</p> <p>11. AREA VALVE SERVICE UNIT : The Area Valve Service Unit should incorporate a ball valve with NIST/else connectors either side mounted in a lockable box with emergency access.</p> <p>The NIST Connection as mention is as per HTM Standard. We work on the Principals of NFPA-99 Standard, where no NIST connection is applicable. We therefore request NIST Connection should be deleted.</p> | Should be as per standard as mentioned in the tendered specifications. |
| 21. | <p>Page no. 18</p> <p>12.1 Master Alarm System The emissions from alarms should conform with EMC standard</p> <p>We work on the principals of NFPA-99 standard where EMC Standard is not applicable. This standard may be applicable to HTM Standard. Therefore we request you to please delete.</p> | Should be as per standard as mentioned in the tendered specifications.. |
| 22. | <p>Page no. 19 & 20</p> <p>16. Horizontal/ Vertical Bed Head Panel</p> <p>Kindly clarify the no. of Horizontal and no. of Vertical Bed Head Panel required as there is costing involved in it.</p> | All Bed Head Panels shall be horizontal. |
| 23. | <p>Page no. 18, 19</p> <p>12. Alarm System 12.2 Medical Gas Area Alarm</p> <p>We request the Alarm System should be Touch Type Alarm Technology – Please refer to the Tender no. HITES/PCD/AIIMS-IV/14/MGSPS/18-19 dated 14.02.2019 for New AIIMS Gorakhpur</p> | The Alarm should be Touch typed/ LCD type with Display size of minimum 10". |

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| | and Bhatinda under PMSSY Phase-IV & V and Tender no. HITES/PCD/ PMSSY-IV/02/MGPS/18-19 dated 14.02.2019 for 7 Medical Colleges /Institutions getting upgraded under PMSSY Phase-IV; where in it is clearly defined DIGITAL. | |
| 24. | <p>Page no. 24</p> <p>Bidder shall execute all required civil, electrical, plumbing, lighting, fire safety, exhaust systems, false ceiling trap door/ cutout and repair(if any) and other works as may be required for complete installation and trouble-free functioning as a part of the ‘Civil Modification’.</p> <p>It is requested to Please elaborate all required civil, electrical, plumbing, lighting, fire safety, exhaust systems, false ceiling trap door/ cutout and repair (if any) and other works as maybe required for complete installation. Please specify the areas where these work has to be executed. Please mention quantity of all additional work required to be carried out by MGPS Vendor in tender BOQ</p> | Tender terms & conditions prevail. |
| 25. | <p>Page no. 25</p> <p>12. The Medical Gas Pipe Line System must follow Single Standard any one only from: NFPA 99c/HTM02-01/ ISO 7396-1/DIN/EN.</p> <p>As mentioned the products should of one standard only; kindly note rest of the medical gas items are Engineering Products. Items such as Ward Vaccum Unit, Theatre Vaccum Unit, Flowmeter with Humidifier bottle are Accessories and are not part of Medical Gas Pipeline System. The Standard applies from Pipe Distribution to Gas Outlets Worldwide and all the Companies, adopts this methodology.</p> | The Medical Gas Pipe Line System must follow Single Standard any one only from: NFPA 99c/HTM02-01/ ISO 7396-1/DIN/EN except accessories. |
| 26. | <p>Page no. 26</p> <p>15. The following systems/items must be from the same principal company/Manufacturer:</p> <p>a. Control Panels & Manifold for O2, N2O & CO2 b. Medical Air plant c. Medical Vacuum Plant d. AGSS Plant e. Area & Master Alarm f. All types Outlets g. AVSU</p> | Tender terms & conditions prevail. |

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| | <p>h. Line Isolation valves i. High Pressure tubes</p> <p>As per clause 15, 09 items should be from same manufacturer. It is requested that these items should be as per same standard.</p> <p>This is totally resulting in restricting the competition so it should be deleted . The tenders from AIIMS [Copy enclosed of recently evaluated & AIIMS MGMS Jai Prakash Narayan,Delhi at Page 6], Ministry of Health and Family Welfare, M/s HSCC (India) Ltd. one of the biggest procurement agency, such a Clause of same principal is never there. We are also referring M/s NBCC, UPRNN, PWD Haryana, Municipal Corporation of Greater Mumbai etc. this clause is never there in any Tenders. You can mention that Air Compressor, Vacuum System Components such as Plant , Control Panel, Tank, Filter from Single Source, otherwise it will lead to restrictions for bidders, so please, it is requested that it should be deleted.</p> <p>Secondly, please appreciate worldwide, NO Single Manufacturer, Manufactures Complete Medical Gas Items. One Manufacturer Specialize in Certain Medical Gas Items and Second Manufacturer Specialize in other Medical Gas Items; by Combining together, a bidder supply the Complete Medical Gas Items as per Standard. The same applies in other Medical Equipments.</p> | |
| 27. | <p>For your kind information, as soon as we will send the MAF, to our foreign principal, he will straight away refuse to provide the same as they do no manufacture all the items. Out of the 10 items, some of these are sourced items from other manufacturers. The sourced items will not have European CE/UL Certified in the name of same manufacturer. You are well aware that that these things contradicts each other and are wrong. Please appreciate, No foreign principal will share any other kind of documentation to correlates the things. No other manufacture will issue certificate which contradicts with the Certification of these 10 items. Even if any bidder submit MAF from Foreign Principal for the desired 10 items, at the time of evaluation of the tender, will fails to provide the European CE/UL/ETL certification, because those certification belongs to other</p> | Tender terms & conditions prevail. |

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| | principal not principal manufacturer and will get straight away rejected or will be asked to provide the documents as per tender terms, which the bidder will not be able to provide. Keeping in view all these constraints M/s HITES in PMSSY-Phase-III Tender for Hospitals Getting Upgraded changed the Criteria through Clarification. Same is enclosed herewith at Page no. 7 ; AIIMS JPNATC deleted this criteria through corrigendum. Same is enclosed herewith at Page no. 6. | |
| 28. | We also like to draw your kind attention that added Para “Certain items should be from the same manufacturer” will have cost implications. As you have mentioned in Paragraph of “Same principal company/Manufacturer”; you are very well aware that no one is manufacturer for all the 09 items. The principal company will procure equipments from original manufacturer thereby the Principal will add his margin and the bidder will add his margin. In this way the cost of item will escalate. | Tender terms & conditions prevail. |
| 29. | <p>Sir, we have tried and explain the above from our years of experience. This clause is Added to restrict other bidders, in other words monopolistic. The criteria should be liberal enough so that equal opportunity for all bidders should be there, which results in more participation and ultimately better pricing to the Ex-Chequer. Also, we have never come across or nowhere in the CVC Guidelines or Govt. of India Procurement Policy, it is mentioned that all items should be from same principal. We have executed/ completed Super Speciality Safdarjung Medical Gas Pipeline Project and are presently executing PMSSY MGPS Projects in various hospitals in India, but never came across such clause. In one way Govt. of India is asking for Competitive pricing & equal opportunity to all and in other way restricting the bidder to submit competitive price.</p> <p>Therefore we strongly suggest that the Medical Gas Pipeline System must follow Single Standard; same is Understandable and acceptable.</p> <p>We therefore request you to kindly DELETE the para “Following systems/items must be from the same principal company/manufacturer”.</p> | Tender terms & conditions prevail. |
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| 31. | <p>Vol 4 - Technical Specifications, Page 2, Para 1.2</p> <p>Oxygen Manifold Supply System (without</p> | Tender terms & conditions prevail. |

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| | <p>Cylinders): Oxygen Manifold should consist of 2 row/s of respective numbers of class D-type bulk oxygen cylinders.</p> <p>The Standard configuration of Manifolds available with most of the leading manufacturers are of Single (1) Row. Therefore we request you to amend the sentence as; Oxygen Manifold should consist of 2/1 row/s of respective numbers of class D-type bulk oxygen cylinders.</p> <p>In addition to this, and for enhancing safety of the manifold system, we suggest that you should demand that the manifold system should not contain any Halogenated Polymer materials and necessary certificates to be provided.</p> | <p>Manifold system should not contain any Halogenated Polymer materials and necessary certificates to be provided.</p> |
| 32. | <p>Vol 4 - Technical Specifications, Page 2, Para 1.2</p> <p>Oxygen Manifold Supply System (without Cylinders): Header bar/s assembly shall be provided with a high pressure shut off valve.</p> <p>It may be noted that HTM or ISO Standards doesnot permit the use of Shut Off Valves on the Headers. Moreover, if any Shut Off Valve are provided on Manifold Header, then the same will not be compliant / satisfying the requirement of HTM / ISO Standards. Hence, we request you to delete the sentence: Header bar/s assembly shall be provided with a high pressure shut off valve.</p> | <p>Should be as per standards as mentioned in the tendered specification.</p> |
| 33. | <p>Vol 4 - Technical Specifications, Page 2, Para 1.2</p> <p>Oxygen Manifold Supply System (without Cylinders): The manifold should be hydraulically tested to 3500 psig or as per standard.</p> <p>In India, the general practise is that the medical gas manifolds are tested at a minimum pressure of 3500 psig. This is inherent and can be verified in many of the earlier tenders floated by HSCC as well.</p> | <p>The Manifold should be hydraulically tested > 3000 psig”.</p> |

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| | <p>Accepting of any manifold which are tested below 3500 psig is actually diluting the safety standards and requirement, and thereby increasing the risk of untoward incidents happening.</p> <p>We therefore request you to maintain the requirement of manifold hydraulically tested to minimum 3500 psig, and delete the wordings or as per standard.</p> | |
| 34. | <p>Vol 4 - Technical Specifications, Page 3, Para 1.3</p> <p>Emergency Oxygen Manifold (without Cylinders): The manifold should be hydraulically tested to 3500 psig or as per standard to be followed.</p> <p>In India, the general practise is that the medical gas manifolds are tested at a minimum pressure of 3500 psig. This is inherent and can be verified in many of the earlier tenders floated by HSCC as well.</p> <p>Accepting of any manifold which are tested below 3500 psig is actually diluting the safety standards and requirement, and thereby increasing the risk of untoward incidents happening.</p> <p>We therefore request you to maintain the requirement of manifold hydraulically tested to minimum 3500 psig, and delete the wordings or as per standard.</p> | <p>The Manifold should be hydraulically tested > 3000 psig”.</p> |
| 35. | <p>Vol 4 - Technical Specifications, Page 3, Para 1.3</p> <p>Emergency Oxygen Manifold (without Cylinders):</p> <p>Please confirm if any Pr Regulating arrangement is required to be offered along with the Emergency Oxygen Manifold? If YES, what is the flow capacity & other technical requirement?</p> | <p>Tender terms & conditions prevail.</p> |
| 36. | <p>Vol 4 - Technical Specifications, Page 10, Para 2.2</p> <p>Nitrous Oxide Manifold (Without Cylinders) Header bar/s assembly shall be provided with a high pressure shut off valve.</p> <p>It may be noted that HTM or ISO Standards does not permit the use of Shut Off Valves on the Headers.</p> <p>Moreover, if any Shut Off Valve are provided on Manifold Header, then the same will not be compliant / satisfying the requirement of HTM / ISO Standards.</p> | <p>Should be as per standards as mentioned in the tendered specification.</p> |

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| | <p>Hence, we request you to delete the sentence: Header bar/s assembly shall be provided with a high pressure shut off valve.</p> | |
| 37. | <p>Vol 4 - Technical Specifications, Page 10, Para 2.2</p> <p>Nitrous Oxide Manifold (Without Cylinders) The manifold should be hydraulically tested to 3500 psig or as per standard.</p> <p>In India, the general practise is that the medical gas manifolds are tested at a minimum pressure of 3500 psig. This is inherent and can be verified in many of the earlier tenders floated by HSCC as well.</p> <p>Accepting of any manifold which are tested below 3500 psig is actually diluting the safety standards and requirement, and thereby increasing the risk of untoward incidents happening.</p> <p>We therefore request you to maintain the requirement of manifold hydraulically tested to minimum 3500 psig, and delete the wordings or as per standard.</p> | <p>The Manifold should be hydraulically tested > 3000 psig”.</p> |
| 38. | <p>Vol 4 - Technical Specifications, Page 10, Para 2.2</p> <p>Emergency N2O Manifold (Without Cylinders) Each header bar assembly shall be provided with a high pressure shut off valve.</p> <p>It may be noted that HTM or ISO Standards doesnot permit the use of Shut Off Valves on the Headers.</p> <p>Moreover, if any Shut Off Valve are provided on Manifold Header, then the same will not be compliant / satisfying the requirement of HTM / ISO Standards.</p> <p>Hence, we request you to delete the sentence: Header bar/s assembly shall be provided with a high pressure shut off valve.</p> | <p>Should be as per standards as mentioned in the tendered specification.</p> |
| 39. | <p>Vol 4 - Technical Specifications, Page 11, Para 3.1</p> <p>MEDICAL AND SURGICAL AIR SYSTEM : The medical air plant shall fully comply with the requirements of the HTM 02-01/ NFPA 99C/EN/DIN/ISO 7396-1. It should be BIS/US FDA/European CE certified with 4 digit notified body number or American ETL/ UL listed(In-case of NFPA 99c the control panel of plant must be UL Listed and Undertaking from manufacturer for this tender reference must be submitted for using the same control panel in the</p> | <p>Tender terms & conditions prevail.</p> |

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| | <p>system offered)</p> <p>It is observed that fair comparison is not happening between HTM / ISO Products Versus NFPA Products. Needless to say the HTM & ISO products have better quality & redundancy factors incorporated, which is much safer for the patients and end users.</p> <p>On the one hand for HTM & ISO Plants, while you are seeking for the very stringent 4 digit notified body number CE Certification with MDD/93/42/EEC for the entire packaged plant, and on the other hand for NFPA based plants you are just asking for the UL/ETL listing only for the Control Panel.</p> <p>By the common voice expressed by various NFPA suppliers, it is being accepted by HSCC that UL Listing is generally issued only for Electrical Parts / components. In that case, we fail to understand how the NFPA bidders are able to supply UL Listing certificates for Gas Terminal units etc, where in there is no visible electrical component / part involved. Kindly clarify and look into this grave matter.</p> <p>Another major issue is that, some of the NFPA Vendors are just importing only the Electrical Control Panel from their principal Suppliers, and procuring and assembling rest of the plant locally which comprises major and critical items like Air Compressors / Vacuum Pumps, Receivers, Breathing & Filtration Units, Bacteria Filtrations, various Valves, Pressure Switches & Piping etc. We request you to kindly look into this grave matter and incorporate checks and measures to ensure that fully packaged skid plants from the Principal Manufacturer are only supplied by the bidders. You may probably ask the bidders to provide Country of Origin documents, Shipping details etc. Also, we would strictly recommend that you should arrange for thorough checking / inspection of recently supplied plants of the previous project tenders, to ensure compliance.</p> | |
| 40. | <p>Vol 4 - Technical Specifications, Page 11, Para 3.1</p> <p>MEDICAL AND SURGICAL AIR SYSTEM : Air Compressor Modules: It should be Oil-Less Screw Compressors /Scroll Compressors to produce the plant output as mentioned in BOQ as primary and same as standby.</p> | Tender terms & conditions prevail. |

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| | <p>HTM & ISO Standards permit use of Oil injected Air Screw Compressors for Medical & Surgical Air.</p> <p>It may be noted that Lubricated Screw Compressors are very economical in terms of initial investment and also maintenance and lifetime cost compared to oilless scroll / screw. This type of Air Compressors are installed all over the world in major hospitals.</p> <p>Also, it is to be noted that a Scroll technology is not a very good choice for 10 Bar plant requirement.</p> <p>Hence, we request you to include oil injected screw compressors in the specifications.</p> | |
| 41. | <p>Vol 4 - Technical Specifications, Page 11, Para 3.1</p> <p>Pressure Reducing Station: Padlocks available to allow locking of the valves in both open and closed positions and must have easy to read pressure gauges or as per guideline of standard to be followed.</p> <p>We fail to understand why padlocks are required to be provided in the Pressure reducing Station? Please note that this appears to be a particular make specific.</p> <p>Hence, we request you to delete the requirement of padlocks for the valves.</p> | Tender terms & conditions prevail. |
| 42. | <p>Vol 4 - Technical Specifications, Page 12, Para 3.2</p> <p>Vertical Air Receiver: Total air receiver capacity shall be at least 50% (\pm 5%) of the primary plant capacity mentioned in the BOQ in 1 minute in terms of free air delivered at normal working pressure or as per standard.</p> <p>Our submission is that, for fair evaluation and comparison of bidders of various standards and for parity purposes, the minimum capacity of the Air Receiver should be specified, which should be complied by bidders for all standards.</p> <p>If an open ended statement like as per standard is mentioned, then this would be a huge disadvantage for HTM / ISO eqpt suppliers.</p> <p>Contrarily, it may be noted that, NFPA doesnot have any guideline on sizing the capacity of Air Receivers. It has been left to the discretion of manufacturers.</p> <p>It has been observed that Medical Air Systems of</p> | Tender terms & conditions prevail. |

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| | <p>NFPA Standards are usually supplied with a small capacity Air Receivers. Hence, to avoid this ambiguity, we suggest that minimum capacity of Air Receiver is clearly specified in the amended tender specs, and which should be followed by all bidders.</p> | |
| 43. | <p>Vol 4 - Technical Specifications, Page 12, Para 3.4</p> <p>System Controls: The cabinet shall have status display to include system pressure, dew point pump operation, accumulated time, maintenance interval, fault conditions, and silence button, lighted Hand-Off-Automatic selector switches</p> <p>It appears that the specification is of a particular make and standard. We request you to delete the words silence button, lighted Hand-Off-Automatic selector switches. Further, it is suggested that this be amended as : System controls be offered as per the requirement of the standard.</p> | System controls be offered as per the requirement of the standard. |
| 44. | <p>Vol 4 - Technical Specifications, Page 13, Para 4.2</p> <p>Vacuum Receiver: Vacuum reservoir shall have total volume of at least 100 % of Primary plant output(\pm 5%) (Capacity as mentioned in the BOQ) or as per standard in one minute in terms of free air aspired at normal working pressure.</p> <p>Our submission is that, for fair evaluation and comparison of bidders of various standards and for parity purposes, the minimum capacity of the Vacuum Receiver should be specified, which should be complied by bidders for all standards. If an open ended statement like as per standard is mentioned, then this would be a huge disadvantage for HTM / ISO eqpt suppliers. Contrarily, it may be noted that, NFPA doesnot have any guideline on sizing the capacity of Vacuum Receivers. It has been left to the discretion of manufacturers. It has been observed that Medical Vacuum Systems of NFPA Standards are usually supplied with a small capacity Vacuum Receivers. Hence, to avoid this ambiguity, we suggest that minimum capacity of Vacuum Receiver is clearly specified in the amended tender specs, and which should be followed by all bidders.</p> | Tender terms & conditions prevail. |

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| 45. | <p>Vol 4 - Technical Specifications, Page 14, Para 4.3</p> <p>System Controls: The cabinet shall have status display to include system pressure, dew point pump operation, accumulated time, maintenance interval, fault conditions, and silence button, lighted Hand-Off-Automatic selector switches</p> <p>It appears that the specification is of a particular make and standard. We request you to delete the words silence button, lighted Hand-Off-Automatic selector switches. Further, it is suggested that this be amended as : System controls be offered as per the requirement of the standard.</p> | System controls be offered as per the requirement of the standard. |
| 46. | <p>Vol 4 - Technical Specifications, Page 14, Para 4.4</p> <p>Bacterial Filters: The dryer should be particulate filter dryer with ability to remove particles as small as 1 micron.</p> <p>The wordings dryer appears to be a typo error. Please clarify and issue necessary amendments.</p> | Tender terms & conditions prevail. |
| 47. | <p>Vol 4 - Technical Specifications, Page 14, Para 5</p> <p>Ward Vacuum Units: Digital Suction Regulator: Suction regulator should be supplied with a safety jar, including and antibacterial filter and an anti-overflow safety device.</p> <p>The standard practise is Analog Suction Regulators. Even in your recent tenders for 3 AIIMS (Nagpur Kalyani & Guntur) you have asked for Digital / Analogue Suction Regulators. Hence we request you to amend the sentences as Digital / Analogue Suction Regulator.</p> | Tender terms & conditions prevail. |
| 48. | <p>Vol 4 - Technical Specifications, Page 15, Para 7</p> <p>Theatre Vacuum unit for OT: Digital Suction Regulator: Suction regulator should be supplied with a safety jar, including an anti-bacterial filter and an anti-overflow safety device</p> <p>The standard practise is Analog Suction Regulators. Even in your recent tenders for 3 AIIMS (Nagpur Kalyani & Guntur) you have asked for Digital / Analogue Suction Regulators.</p> | Tender terms & conditions prevail. |

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| | Hence we request you to amend the sentences as Digital / Analogue Suction Regulator. | |
| 49. | <p>Vol 4 - Technical Specifications, Page 15, Para 8</p> <p>AGSS (Anesthetic Gas Scavenging System) Plant: The package should consist of two dry rotary vane/Claw type vacuum pumps (Dry/Oiless) or as per guideline of standard to be followed,</p> <p>As per HTM & ISO Standards, the Blower type Pumps are normally used in the AGSS System. Please confirm if this is acceptable.</p> | Tender terms & conditions prevail. |
| 50. | <p>Vol 4 - Technical Specifications, Page 15, Para 8</p> <p>AGSS (Anesthetic Gas Scavenging System) Plant: Connecting hose suitable to fit with anaesthesia workstation should be provided.</p> <p>Please provide the Qtys of Connecting Hoses required for the Anaesthesia Workstations and their Technical Specs. Ideally, the connecting hoses are supplied by the respective Anaesthesia Workstation Suppliers, and therefore can be deleted from the tender specs.</p> | Tender terms & conditions prevail. |
| 51. | <p>Vol 4 - Technical Specifications, Page 17, Para 11</p> <p>AREA VALVE SERVICE UNIT: The Area Valve Service Unit should incorporate a ball valve with NIST/else connectors either side mounted in a lockable box with emergency access or as per guideline of standard to be followed.</p> <p>Please confirm if the AVSU is required to be supplied along with ball Valves? If yes, specify the valve sizes configuration required in each of the AVSU models 2 gas - 6 gas services.</p> | Tender terms & conditions prevail. |
| 52. | <p>Vol 4 - Technical Specifications, Page 17, Para 11</p> <p>AREA VALVE SERVICE UNIT: The Area Valve Service Unit should incorporate a ball valve with NIST/else connectors either side mounted in a lockable box with emergency access.</p> <p>Our submission is that, for fair evaluation and comparison of bidders of various standards and for parity purposes, and also for the Safety and backup arrangement and continuity of gas supplies of the MGPS, the NIST is a very critical requirement for AVSU, which should be complied by bidders for all standards.</p> | Tender terms & conditions prevail. |

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| | <p>If an open ended statement like with NIST / else connectors is mentioned, then this would be a huge disadvantage for HTM / ISO eqpt suppliers. Just providing connectors would be not sufficient and shall risky as there would high chances of interconnections due to interchangeability issues. The NIST should be madatory to prevent accidents.</p> <p>Contrarily, it may be noted that, NFPA doesnot categorically mention about the requirement of NIST. However, the Isolation Valves as per NFPA Mandates to have provisions for inlet ports on the pipe extensions, wherein the NIST connectors can be fixed.</p> <p>Hence, to avoid this ambiguity, we suggest that NIST Connectors are mandatory is clearly specified in the amended tender specs, and which should be followed by all bidders.</p> | |
| 53. | <p>Vol 4 - Technical Specifications, Page 17, Para 11</p> <p>AREA VALVE SERVICE UNIT: The box shall be made from extruded aluminium to prevent corrosion or as per standard.</p> <p>It may be noted that the AVSU Box manufactured by all major suppliers is made of Steel and powder coated etc to prevent corrossion. Hence, we request you to kindly delete the wordings extruded aluminium from the tender specs and instead add Steel powder coated.</p> | Powder coated Aluminium/Steel |
| 54. | <p>Vol 4 - Technical Specifications, Page 18, Para 12.1</p> <p>Master Alarm : The master alarms should be capable to monitor minimum 40 Point. Bidder shall be responsible for all cabling from local alarm panels to master alarm panel.</p> <p>Please confirm if all the Area Alarms are required to be connected with the Master Alarm Panel by providing cabling? If Yes, then the Size of Master Alarm Panel is not sufficient, as it has provision to connect only 30-40 points. Whereas, the total number of AVSU is 53 Nos.</p> | Tender terms & conditions prevail. |
| 55. | <p>Vol 4 - Technical Specifications, Page 19, Para 12.2</p> <p>Medical Gas Area Alarm: The medical gas central alarms should be capable</p> | Tender terms & conditions prevail. |

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| | <p>of monitoring up to 5 medical gas services (As specified in BOQ)</p> <p>It appears the central mentioned in the tender specs is a typo error. Please clarify.</p> <p>Also, the 5 medical gas services mentioned in the specs is not correct, as the BOQ mentions upto 6 medical gas services. Please clarify.</p> | |
| 56. | <p>Vol 4 - Technical Specifications, Page 22, Para 13b</p> <p>Manufacturer Authorization:</p> <p>This is a limiting clause and appears to be favoring few companies only and which may restrict competition to a few bidders only. You are requested to delete the requirement of Manufacturers Authorisation Certificates. By getting committed to a particular manufacturer while quoting, the bidders lose their ability to negotiate better prices and terms at the time of supply and also quite often are restricted to the products of the particular manufacturer despite better products becoming available from other manufacturers while the tender is still under consideration of the tenderer. This requirement is inviting cartelisation because local / indian representatives of particular foreign manufacturers have got their specification incorporated in the major tender and the leading bidder will have their supporting bidders.</p> <p>Moreover, it may be noted that the requirement of Manufacturers Authorisation Certificate is against the CCI Act 2012.</p> | Tender terms & conditions prevail. |
| 57. | <p>Vol 4 - Technical Specifications, Page 24,</p> <p>Responsibility of bidder: 5. Rota meters for measurement of consumption of Oxygen and Compressed air</p> <p>To enable fair evaluation and parity among all bidders, Please provide Technical Specs for the Rotameters.</p> <p>Also, request you to include this in the line item of the BOQ, as this is a major item.</p> | Tender terms & conditions prevail. |
| 58. | <p>Vol 4 - Technical Specifications, Page 27, Para 15</p> <p>The following systems/items must be from the same principal company/Manufacturer: a. Control Panels & Manifold for O2, N2O & CO2</p> | Tender terms & conditions prevail. |

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| | <p>b. Medical air plant c. Medical Vacuum Plant d. AGSS Plant e. Area & Master Alarm f. All types Outlets g. AVSU h. Line Isolation valves i. High Pressure tubes</p> <p>We request you to kindly delete the sentence The following systems/items must be from the same principal company/Manufacturer:, and allow the bidders to select the best possible supplier option, as long as all the MGPS Products being offered are from the same single MGPS Standard and Quality assurance is ensured by providing CE / UL certificates.</p> <p>It may be kindly noted that there are only a few and limited suppliers worldwide who manufacture (or outsource) all the MGPS products.</p> <p>On the other hand, there are certain manufacturers who are having exceptionally good experience and reputation in their respective domain like supplying MGPS Plant Source Equipments (Medical Air Plant, Vacuum & AGSS Plants), and there are other's who can offer exceptionally good quality MGPS Distribution System Equipment and similarly for Architectural Systems (Bed Head panels etc), SOT Products (Oxygen Flowmeter, Ward Vacuum Units, Theatre Vacuum Units etc). Linde shall take the single point responsibility for all the equipment supplied by the respective OEM Suppliers, and shall be fully responsible for the complete installation and during warranty and CMC Periods.</p> | |
| 59. | <p>Vol 4 - Technical Specifications, Page 27, Para 15</p> <p>The following systems/items must be from the same principal company/Manufacturer:</p> <p>We request you to kindly provide detailed definition of the words Principal Company & Manufacturer.</p> <p>Is there any difference in these, if yes kindly provide the definition.</p> | Tender terms & conditions prevail. |
| 60. | <p>Vol 4 - Technical Specifications, Page 26, Para 23</p> <p>Inter connection to Manifolds with LMO tank with necessary automatic switchover panels between LMO & Manifold will be up to responsibility of</p> | Tender terms & conditions prevail. |

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| | <p>bidder upto 100m distance.</p> <p>We request you to provide drawings of the site to identify the location of proposed LMO system and the location of Manifold Room, to enable ascertain the distance, routing and cost estimation.</p> | |
| 61. | <p>Vol 3 - SCC, Page 35,</p> <p>After provisional taking over, the contractor shall provide operation and maintenance services for the complete MEDICAL GAS MANIFOLD SYSTEM EQUIPMENT till the successful completion of Defect Liability Period.</p> <p>Please clarify the meaning of Operation. Will the bidder have to provide manpower at site? If Yes, how many in each shift etc?</p> <p>The BOQ file doesnot have relevant areas to provide the Operation Cost. Please amend the BOQ file, if this scope of work is required to be provided.</p> | <p>After provisional taking over, the contractor shall provide 5 years warranty and 5 years CMC</p> |
| 62. | <p>Vol 3 - SCC, Page 49,</p> <p>MANUFACTURER'S AUTHORIZATION FORM:</p> <p>Dear Sir,</p> <p>Tender No. -----</p> <p>We who are established and reputed manufacturer of (name & description of goods offered) having factories at (address of factory) do hereby authorize M/s (Name & address of agent) which has been our dealer/distributor since , to submit a bid, and sign the contract with you for the goods manufactured by us against the above tender.</p> <p>No company or firm or individual other than M/s are authorized to bid and conclude the contract for goods manufactured by us against this specific tender.</p> <p>We hereby extend our full guarantee and defect liability period as per the clause of Condition of Contract and Additional Specific Conditions of Contract of above tender for goods and services offered for supply by our authorized firm .</p> <p>To enable the Principal Company to provide authorisation, we request you to amend the format as:</p> <p>MANUFACTURER'S / PRINCIPAL</p> | <p>Tender terms & conditions prevail.</p> |

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| | <p>COMPANY's AUTHORIZATION FORM: Dear Sir, Tender No. ----- We who are established and reputed manufacturer / Supplier of (name & description of goods offered) having factories at (address of factory) do hereby authorize M/s (Name & address of agent) which has been our dealer/distributor since , to submit a bid, and sign the contract with you for the goods manufactured / supplied by us against the above tender. No company or firm or individual other than M/s are authorized to bid and conclude the contract for goods manufactured / supplied by us against this specific tender. We hereby extend our full guarantee and defect liability period as per the clause of Condition of Contract and Additional Specific Conditions of Contract of above tender for goods and services offered for supply by our authorized firm .</p> | |
| 63. | <p>Vol 1- Page 3</p> <p>Period of work completion – 4 Months</p> <p>Considering the huge quantum of work and imported equipment which needs to be arranged, we request you to kindly amend the work completion time to minimum 8 Months</p> | Tender terms & conditions prevail. |
| 64. | <p>Vol-III, Special Conditions of Contract , Page No. SCC- , Clause 39.2.4, Page 25</p> <p>Water Supply & Power Supply: The contractor will provide water & electricity to the Consultant's office free of cost for the required quantity by the Consultant's site office.</p> <p>MGPS Works require very less electrical power and water for construction purposes. We request to delete the sentence: The contractor will provide water & electricity to the Consultant's office free of cost for the required quantity by the Consultant's site office.</p> | Tender terms & conditions prevail. |
| 65. | <p>Vol-II, General Conditions of Contract, Clause 47.1 & Annexure-B (Appendix To Tender), Page 38 & 71</p> <p>Liquidated Damages for Delay: Amount of Liquidated damages : 1% (one percent)</p> | Tender terms & conditions prevail. |

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| | <p>of contract price per calender week of delay Limit of liquidated damages : 10% (Ten percent) of contract price.</p> <p>Please consider the aggregate maximum of liquidated damages payable under clause No. 47.1 shall not exceed 0.5% of contract value per week of delay and shall be subjected to maximum amount of 5% on overall contract price.</p> | |
| 66. | <p>General Point</p> <p>Release of Final 10% Payment</p> <p>After completion of installation works, if the Commisioning / Trial Run of the MGMS system is delayed for more than 3 months due to reasosns not attributable to Contractor, then the final 10% payment should be released without any further delay against submission of Bank Guarantee. Please confirm acceptance of this.</p> | Tender terms & conditions prevail. |
| 67. | <p>General Point</p> <p>DLP Period Start Date</p> <p>After completion of installation works, if the Commisioning / Trial run of the MGMS system is delayed for more than 3 months due to reasons not attributable to Contractor, then DLP period start date would be considered from that date. Please confirm acceptance of this.</p> | Tender terms & conditions prevail. |
| 68. | <p>General Point</p> <p>Customs Duty</p> <p>Please confirm customs duty is under customer or bidders scope. Also confirm the applicable rate of customs duty for the job. Also confirm if CDEC (Customs Duty Exemption Certificate) would be issued by customer. If Yes, what would be the rate of Customs Duty exemption.</p> | Tender terms & conditions prevail. |
| 69. | <p>General Point</p> <p>Statutory Duties</p> <p>In case of any statutory variation in duties like GST, Customs Duty, IGST etc within the contractual delivery date shall be borne by client. Kindly confirm this.</p> | Tender terms & conditions prevail. |

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| 70. | | |
| 71. | <p>Fully Automatic Oxygen Control Panel:</p> <p>The Automatic Control Panel should be installed in such a way to meet the peak flow requirement of the Hospital/Institute (If the requirement is more than flow capacity requirement automatic control panel the bidders has to supply 02 numbers of Automatic Control Panel and design the system in such a way to meet the flow requirement of respective institute).</p> <p>To be deleted from tender specification</p> <p>This paragraph is contradicting with tender BOQ and Flow rate mentioned in the tender. Incase you require additional Control panel, same should be added in tender BOQ as it is invalid to ask for additional Control Panel in the cost of 1 no. Control Panel as mentioned in tender BOQ. Kindly delete this paragraph from technical specifications of tender documents.</p> | Deleted |
| 72. | <p>Oxygen Manifold Supply System</p> <p>The cylinder should be placed with the help of cylinder brackets and fixing chains which should be galvanized.</p> <p>To be deleted from tender specification</p> <p>NFPA doesn't mandate to install cylinder brackets and fixing chain with Manifold due to its design, however the same is a mandatory requirement of HTM / ISO Standards and not applicable for those who are bidding as per NFPA Standard. You are therefore requested to kindly delete standard specific requirement from tender.</p> | Should be as per standards as mentioned in the tendered specification. |
| 73. | <p>Emergency Oxygen Manifold (Without Cylinders)</p> <p>The cylinder should be placed with the help of cylinder brackets and fixing chains which should be galvanized.</p> <p>To be deleted from tender specification</p> <p>NFPA doesn't mandate to install cylinder brackets and fixing chain with Manifold due to its design, however the same is a mandatory requirement of HTM / ISO Standards and not applicable for those who are bidding as per NFPA Standard. You are therefore requested to kindly delete standard specific requirement from tender.</p> | Should be as per standards as mentioned in the tendered specification. |
| 74. | <p>Oxygen Flow meter with Humidifier Bottle</p> <p>The humidifier bottle is made of unbreakable & reusable polycarbonate /polysulfone material autoclavable at 121 degree centigrade.</p> <p>The humidifier bottle is made of unbreakable & reusable polycarbonate /polysulfone / Polypropylene material autoclavable at 121 /134 degree centigrade .</p> <p>As on date, hospitals recommend newly launched Polypropylene material autoclavable at 134 deg. C made Humidifier Bottle instead of polycarbonate</p> | The humidifier bottle should be made of unbreakable & reusable polycarbonate /polysulfone / Polypropylene material autoclavable at 121 / 134 degree centigrade . |

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| | /polysulfone due to its long lasting feature. Easy to clean and less chances of breakage feature. You are requested to kindly add the same. | |
| 75. | <p>LIQUID MEDICAL OXYGEN STORAGE TANK-20KL CAPACITY</p> <p>LIQUID MEDICAL OXYGEN STORAGE TANK – 10KL CAPACITY</p> <p>20 KL Tank is on higher side. Kindly amend the same to 10 KL capacity instead of 20 KL</p> | Liquid Medical Oxygen Storage Tank-20KL Capacity shall prevail. |
| 76. | <p>LIQUID MEDICAL OXYGEN STORAGE TANK</p> <p>Max working pressure : 17 Bar G</p> <p>Max. working Pressure: 17.6 Bar G</p> <p>Max working pressure needs to be revised to 17.6 Bar G from 17 Bar G. Kindly amend the same.</p> | Max. working Pressure: 17.6 Bar G |
| 77. | <p>LIQUID MEDICAL OXYGEN STORAGE TANK</p> <p>Hydraulic test pressure : 26 bar G</p> <p>Hydraulic test pressure : As per EN Code Hydraulic test pressure should be revised to "As per EN Code". Kindly amend the same.</p> | Hydraulic test pressure : 26 bar G/As per EN code. |
| 78. | <p>LIQUID MEDICAL OXYGEN STORAGE TANK</p> <p>Inspection : By 3rd party (SGS/LLOYDS/TUV)</p> <p>Inspection : By 3rd party (SGS/LLOYDS/TUV / BVIS) Kindly add one more reputed name for third inspection, i.e BVIS.</p> | Inspection : By 3rd party (SGS/LLOYDS/TUV / BVIS) |
| 79. | <p>LIQUID MEDICAL OXYGEN STORAGE TANK</p> <p>Vaporiser Coil Duty cycle: Continuous duty</p> <p>Duty Cycle: 6-8 hours</p> <p>The Duty Cycle of vaporizer coil is 6-8 hours only. You are requested to amend the same.</p> | Tender terms & conditions prevail. |
| 80. | <p>LIQUID MEDICAL OXYGEN STORAGE TANK</p> <p>Safety Fittings - • Vessel low liquid level alarm</p> <p>To be deleted</p> <p>In Safety Fitting, Vessel Low Liquid level alarm is not required since low pressure alarm will be provided. Kindly delete the same.</p> | Vessel Low Liquid level alarm/ low pressure alarm shall be provided. |
| 81. | Fully Automatic Nitrous Oxide Control Panel | Deleted |

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| | <p>The Automatic Control Panel should be installed in such a way to meet the peak flow requirement of the Hospital/Institute (If the requirement is more than flow capacity requirement automatic control panel the bidders has to supply 02 numbers of Automatic Control Panel and design the system in such a way to meet the flow requirement of respective institute)</p> <p>To be deleted from tender specification</p> <p>This paragraph is contradicting with tender BOQ and Flow rate mentioned in the tender. Incase you require additional Control panel, same should be added in tender BOQ as it is invalid to ask for additional Control Panel in the cost of 1 no. Control Panel as mentioned in tender BOQ. Kindly delete this paragraph from technical specifications of tender documents.</p> | |
| 82. | <p>Nitrous Oxide Manifold (Without Cylinders)</p> <p>The cylinder should be locked with the help of cylinder brackets and fixing chains which should be galvanized.</p> <p>To be deleted from tender specification</p> <p>NFPA doesn't mandate to install cylinder brackets and fixing chain with Manifold due to its design, however the same is a mandatory requirement of HTM / ISO Standards and not applicable for those who are bidding as per NFPA Standard. You are therefore requested to kindly delete standard specific requirement from tender.</p> | Should be as per standards as mentioned in the tendered specification. |
| 83. | <p>Emergency N2O Manifold (Without Cylinders)</p> <p>The cylinder should be placed with the help of cylinder brackets and fixing chains which should be galvanized.</p> <p>To be deleted from tender specification</p> <p>NFPA doesn't mandate to install cylinder brackets and fixing chain with Manifold due to its design, however the same is a mandatory requirement of HTM / ISO Standards and not applicable for those who are bidding as per NFPA Standard. You are therefore requested to kindly delete standard specific requirement from tender.</p> | Should be as per standards as mentioned in the tendered specification. |
| 84. | <p>MEDICAL AND SURGICAL AIR SYSTEM</p> <p>Stage 1: Coalescing filter upstream of the desiccant dryer for removing liquid water particles down to 1micron.</p> <p>Stage 1: Coalescing filter upstream of the desiccant dryer for removing liquid water particles down to 0.01 micron.</p> <p>As per NFPA Standard, Pre-filter / Coalescing Filters removes liquid particles down to 0.01 micron instead of</p> | Coalescing filter upstream of the desiccant dryer for removing liquid water particles down to 1micron or as per laid down standards. |

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| | 1 micron. Kindly amend the same. | |
| 85. | <p>System Controls - The control include individual self-protected combination motor controls with short circuit protection, single phase and thermal overload protection, individual control circuit transformers with fuse less primary and secondary protection</p> <p>System Controls - The control include individual self-protected combination motor controls with short circuit protection, single phase and thermal overload protection, individual control circuit transformers with fused primary and secondary protection</p> <p>In NFPA Standard, Transformers used are fused instead of Fuseless. You are requested to kindly amend the same.</p> | Should be as per standards as mentioned in the tendered specification. |
| 86. | <p>Vacuum System</p> <p>System Controls - The control include individual self-protected combination motor controls with short circuit, single phase and thermal overload protection, individual control circuit transformers with fuse less primary and secondary protection.</p> <p>System Controls - The control include individual self-protected combination motor controls with short circuit, single phase and thermal overload protection, individual control circuit transformers with fused primary and secondary protection.</p> <p>In NFPA Standard, Transformers used are fused instead of Fuseless. You are requested to kindly amend the same.</p> | Should be as per standards as mentioned in the tendered specification. |
| 87. | <p>Low Flow Ward Vacuum Unit</p> <p>Low Flow Vacuum Unit –</p> <p>It should have a Digital Suction Regulator.</p> <p>Same as Ward vacuum unit, Low flow vacuum unit should also have digital suction regulator. You are requested to kindly mention the same.</p> | <p>Low Flow Vacuum Unit –</p> <p>It should have a Digital Suction Regulator.</p> |
| 88. | <p>AREA VALVE SERVICE UNIT</p> <p>The Area Valve Service Unit should incorporate a ball valve with NIST/else connectors either side mounted in a lockable box with emergency access.</p> <p>The Area Valve Service Unit should incorporate a ball valve with NIST/else connectors / Gauges either side mounted in a lockable box with emergency access.</p> <p>In NFPA Standard, AVSU provided are with Guages instead of NIST, since NIST is the specific requirement of HTM Standards. You are requested to kindly amend and mention the same.</p> | Should be as per standards as mentioned in the tendered specification. |

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| 89. | <p>Kindly add: Area Valve Service unit (Without Valves)</p> <p>Since the quantities of Valves are already considered in item Sr. No.13 of tender BOQ, you are requested to kindly correct and mention the same.</p> | Tender terms & conditions prevail |
| 90. | <p>ALARM SYSTEM</p> <p>Master Alarm Kindly add: It should be LCD type with Display size of minimum 10".</p> <p>For better visibility, kindly mention that the alarm should be LCD type with Display size of minimum 10".</p> | The alarm should be Touch typed/ LCD type with Display size of minimum 10". |
| 91. | <p>Medical Gas Area Alarm</p> <p>Kindly add: It should be LCD type with Display size of minimum 10".</p> <p>For better visibility, kindly mention that the alarm should be LCD type with Display size of minimum 10".</p> | The alarm should be Touch typed/ LCD type with Display size of minimum 10". |
| 92. | <p>Horizontal/ Vertical Bed Head Panel</p> <p>Kindly Add: It should be European CE certified with 4 digit notified body number or American ETL/UL listed.</p> <p>Since all the equipments asked in the tender are of imported origin, we recommend the same to be mentioned for bed head panel also.</p> | It should be BIS/European CE certified with 4 digit notified body number or American ETL/UL listed. |
| 93. | <p>Site Modification</p> <p>i. Bidder should be responsible for Ironite flooring in the manifold room with minimum thickness 5mm.</p> <p>To be added in Tender BOQ</p> <p>Kindly add the same in Tender BOQ along with required quantities to enable us to consider pricing in tender BOQ.</p> <p>ii. Bidder should provide a raised Loading/Unloading Platform of suitable sized adjacent to manifold room, so that cylinder can be loaded & unloaded easily form the lorry/vehicle.</p> <p>To be added in Tender BOQ</p> <p>Kindly add the same in Tender BOQ along with required quantities / Size of Area to enable us to consider pricing in tender BOQ.</p> <p>iii. Bidder should be responsible for foundation of Plant Room (If required) for Medical Air Plant, Vacuum Pant & AGSS Plant.</p> <p>To be added in Tender BOQ</p> <p>Kindly add the same in Tender BOQ along with required quantities / Size of Area to enable us to</p> | Tender terms & conditions prevail |

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| | consider pricing in tender BOQ. | |
| 94. | <p>Extra Works (optional)</p> <p>a. Construction of MGPS Operator Room & Toilet (Optional)</p> <p>b. Construction of Overhead/Under Ground trench size approx 1.5mx1m (Optional)</p> <p>c. Construction of 9" brick wall</p> <p>d. Demolition of brick wall 200 Cu.ft.</p> <p>Extra works to be added in tender BOQ.</p> <p>All the Extra works mentioned under optional work should be considered in tender BOQ to enable bidders to quote accordingly.</p> | Tender terms & conditions prevail |
| 95. | <p>Page 26. of Technical Specification</p> <p>The following systems/items must be from the same principal company /Manufacturer:</p> <p>a. Control Panels & Manifold for O2, N2O & CO2</p> <p>b. Medical air plant</p> <p>c. Medical Vacuum Plant</p> <p>d. AGSS Plant</p> <p>e. Area & Master Alarm</p> <p>f. All types Outlets</p> <p>g. AVSU</p> <p>h. Line Isolation valves</p> <p>i. High Pressure tubes</p> <p>The following systems/items must be from the same principal company /Manufacturer:</p> <p>a. Control Panels & Manifold for O2, N2O & CO2</p> <p>b. Medical air plant</p> <p>c. Medical Vacuum Plant</p> <p>d. AGSS Plant</p> <p>e. Area & Master Alarm</p> <p>f. All types Outlets</p> <p>g. AVSU</p> <p>h. Line Isolation valves</p> <p>i. High Pressure tubes</p> <p>j. Oxygen Flow meter with Humidifier Bottle</p> <p>k. Ward Vacuum Unit</p> <p>l. Theatre Vacuum Unit</p> <p>m. Low Flow Vacuum Unit</p> <p>You missed out to mention SOT's in the list. Kindly consider the same.</p> | Tender terms & conditions prevail |
| 96. | <p>Page No.23 of Technical Specification</p> <p>The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5 % of the cost of the equipment shall be valid till 2 months after expiry of entire CMC period.</p> <p>The payment of CMC must be revised to monthly basis instead of Six monthly basis.</p> | Tender terms & conditions prevail |

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| | <p>Since CMC includes spares which are purchased on chargeable basis, we therefore request you to kindly make amendment in payment of CMC from six months to monthly basis.</p> | |
| 97. | <p>Page No.25 of Technical Specification</p> <p>Responsibility of bidder</p> <p>Point No.10 - Bidder shall be responsible for free maintenance of all component of Gas pipeline system during warranty period including all filters & consumables.</p> <p>Kindly delete “including all filters & consumables”.</p> <p>Consumables are those accessories which are consumed as per client usage / requirement and it is invalid to add the cost of consumable items like filters and other consumables in bidder scope, since actual requirement can't be / measured / considered at the time of tender. Hence the same must be deleted from bidders responsibility. However the same can be procured through bidder on chargeable basis by hospital as and when required.</p> | Tender terms & conditions prevail |
| 98. | <p>Page No.25 of Technical Specification</p> <p>Point No.18 - Minimum 20TR AC (ductable and exhausts) should be considered.</p> <p>20TR AC cost should be mentioned in tender BOQ</p> <p>Since Air Conditioning is equipment, which is also a costly item, hence pricing of the same can't be absorbed. Kindly mention the same in tender BOQ.</p> | Revised BOQ enclosed |
| 99. | <p>Point No.19 - Bidder should be responsible for dedicated earthing (Chemical type) for MGPS Plant room (If required)</p> <p>To be added in Tender BOQ.</p> <p>Bidders scope of work is confined to SITC Of MGPS only. Chemical Earthing is not our specialization, hence it should be deleted from our scope and to be added in the scope of work of Electrical contractor or the same should be considered in tender BOQ to enable us to give quote.</p> | Revised BOQ enclosed |
| 100 | <p>Point No. 23 - Inter connection to Manifolds with LMO tank with necessary automatic switchover panels between LMO & Manifold will be up to responsibility of bidder upto 100m distance.</p> <p>To be added in Tender BOQ</p> <p>In the tender BOQ, you have only considered 20 KL Tank with Vaporizer. To do the switchover, 1 No. additional Control Panel is required. Copper Piping for interconnection from Manifold to LMO tank required and the same is not considered in tender BOQ. You are requested to kindly add the same.</p> | Revised BOQ enclosed |

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| 101 | <p>Page No.19- SCC</p> <p>Performance Security – 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>Performance Security – 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> | Tender terms & conditions prevail |
| 102 | <p>Bill of Quantity</p> <p>Item No.3</p> <p>Medical Air Plant (Package Unit) including electrical control panel: Supply, Installation, testing and commissioning medical air plant having a minimum capacity of 4500-5000LPM and 2250-2500 LPM as standby as per specification.</p> <p>Medical Air Plant (Package Unit) including electrical control panel: Supply, Installation, testing and commissioning medical air plant having a minimum capacity of 5000- 5500 LPM and 1000 - 1500 LPM or Total Plant Capacity should be minimum 6500 LPM</p> <p>The Plant Capacities mentioned are fixed type. Kindly revise the same. Kindly also mention total plant capacity (working + standby) should be minimum 6500 LPM</p> | Revised BOQ enclosed |
| 103 | <p>Bill of Quantity</p> <p>Item No.4</p> <p>Medical Vacuum Plant (Package unit): Supply, Installation, testing and commissioning of Rotary Vane type medical vacuum plant having a minimum system capacity of 7000-8000 LPM as primary and 7000-8000 LPM as standby and as per specification</p> <p>Medical Vacuum Plant (Package unit): Supply, Installation, testing and commissioning of Rotary Vane type medical vacuum plant having a minimum system capacity of 6500 -7000 LPM as primary and 6500-7000 LPM or Total Plant Capacity should be minimum 12,500 LPM</p> <p>The Plant Capacities mentioned are fixed type. Kindly revise the same. Kindly also mention total plant capacity (working + standby) should be minimum 12,500 LPM</p> | Revised BOQ enclosed |
| 104 | Item No.8 | Revised BOQ enclosed |

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| | <p>AGSS System: Supply installation and commissioning of AGSS system. As per specification</p> <p>AGSS System: Supply installation and commissioning of AGSS Plant having a minimum system capacity of 1200 -1500 LPM working and 1200 -1500 LPM as standby or Total Plant Capacity should be minimum 2500 LPM</p> <p>The Plant Capacities mentioned are fixed type. Kindly revise the same. Kindly also mention total plant capacity (working + standby) should be minimum 2500 LPM</p> | |
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All other terms & conditions remain unchanged.

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