HSCC/SES/MGMS/PGI/SANGRUR/2020 Date:16.03.2020

All Bidders

Amendment -IV

Project: Supply, Installation, Testing & Commissioning of Medical Gas ManifoldSystem at PGI Satellite Centre for PGIMER at Village Ghabdan, Sangrur.

Tender No: HSCC/SES/MGMS/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.	**Page-11, Item** **Vacuum (Suction) System** Vacuum system shall be having system capacity of 220cfm (±10%)/6228 LPM at 19" Hg to be delivered to the hospital with necessary standby arrangement as per the requirement of the relevant International Standard. Amendment request: Vacuum System shall be having system capacity of 5000-5500 LPM working with 5000-5500 LPM as standby. Total Plant Capacity should be minimum 10,000 LPM with a vacuum tank of minimum 4000 litres or above. The Plant capacities mentioned are fixed type. Further standby arrangement are not clearly mentioned. You are requested to kindly amend and mention the same to minimum 5000-5500 LPM working with 5000-5500 LPMas standby or Total Plant Capacity should be minimum 10,000 LPM	Tender terms & conditions prevail.
2.	**Item No.4, Page-12** **Air Compressors** The Compressed air system shall be to provide minimum system capacity 150(±10%)Scfm/4250 LPM at 8.5 - 10 bar to be delivered to the hospital with necessary standby arrangement as per the requirement of the relevant standard	Tender terms & conditions prevail.

	Amendment request: Air Compressor shall be having system capacity of minimum 4000 LPM working with 1000 LPMas standby or Total Plant Capacity should be minimum 5,000 LPM with a Air Receiver tank of minimum 1500 litres or above. The Plant capacities mentioned are fixed type. Further standby arrangement are not clearly mentioned. You are requested to kindly amend and mention the same to minimum 4000 LPM working with 1000 LPMas standby or Total Plant Capacity should be minimum 5,000 LPM	
3.	**Page 24** **Turnkey Work-** Bidder must take into consideration in its bid, costs to be incurred for any additional work pertaining to Civil, Electrical, Mechanical and any other protections relevant as per State/Central Govt. regulation/local authority, Servo stabilisers, U.P.S. etc. Office furniture (Table and Chair) required for successful installation testing and commissioning of the system and the offered price should include all such costs, each Schedule is to be considered a package in itself and contractor to execute the order package on a "turnkey basis". Demolishing, re-constructing, water roofing, plumbing, repainting and replacement. Any demolition, reconstruction, water proofing, necessary plumbing, anti-microbialpainting, replacement of any door or windows to provide structured design for MGMS. • Providing fixing of **Electrical Gadgets** like ELCB, MCB, Light Points, Power points, etc in the Medical Gas Pipeline System. • Installation of MCB, ACB, ELCB & OCB of Havell/Siemens/L&T/Schneider etc for **Control Panel** for Medical Gas Pipeline System. • Installation of all **electrical cabling** must be of IS: 1554 (As per latest amendment) standard and wiring as per IS: 732 standard and proper earthing of all Medical Gas Pipeline System and other electrical instrument and accessories in the	Tender terms & conditions prevail.

	Medical Gas Pipeline System as per standard guidelines of BIS. • Ventilation of Plant Room and Manifold Room of the MGMS and exhaustion of suctioned gases/air from the Vacuum unit exhaust blowers. • Arrangement for requisite **Fire Extinguishing** for the entire effective zones in the Manifold and Plant Room. Amendment request: Bidder must take into consideration in its bid, costs to be incurred for any additional work pertaining to Civil, Electrical, Mechanical and any other protections relevant as per State/Central Govt. regulation/local authority required for successful installation testing and commissioning of the system and the offered price should include all such costs, each Schedule is to be considered a package in itself and contractor to execute the order package on a "turnkey basis". Demolishing, re-constructing, water roofing, plumbing, repainting and replacement. Any demolition, reconstruction, water proofing, necessary plumbing, anti-microbialpainting, replacement of any door or windows to provide structured design for MGMS. The turnkey work mentioned is contradictory at various places. You have mentioned equipments in turnkey work like Servo stabilisers, U.P.S. etc. Office furniture (Table and Chair), which can't be a part of turnkey work. If the same is required at site, it should be considered in tender BOQ or stands deleted. • Ventilation of Plant Room and Manifold Room of the MGMS and exhaustion of suctioned gases/air from the Vacuum unit exhaust blowers – As mentioned you required Air Conditioning for Ventilation in the Plant and Manifold Room is required. Being AC a costly item, you are requested to kindly consider the same in tender BOQ instead of Turnkey work. • Arrangement for requisite **Fire Extinguishing** for the entire effective zones in the Manifold and Plant	

	Room. – Providing of Fire Extinguishers is not our scope of work, hence needs to be deleted from turnkey work of tender. Request you to re-verify the turnkey work and provide breakup of works to be done by MGPS bidder under turnkey works, since the description of Turnkey works to be done by bidder given under Sr. No.16 of Technical specifications is very confusing.	
4.	**Item No. 9** **AGSS - Duplex Medical Vacuum System** - The system shall comprise of two oil less rotary vane vacuum pumps, a control panel and a receiver all mounted on a common base frame. One pump shall be a standby. The system shall be complete with all accessories as required and as per specifications. Duplex Medical Vacuum System. (1000 LPM working + 1000 LPM as standby). The system shall comprise of two oil less rotary vane vacuum pumps, a control panel and a receiver all mounted on a common base frame along with a suitable receiver tank. One pump shall be a standby. The system shall be complete with all accessories as required and as per specifications.	Tender terms & conditions prevail.
5.	**Page 17, Point No.7** **Horizontal Bed Head Panel** As per amendment No. II, dated: 09.03.2020 Following accessories should be provided locally with HBHP: Nurse Call System Module - 1 No. Following accessories should be provided locally with HBHP: Nurse Call System Module (Cutout/provision only) - 1 No. As per original tender, you have asked for Nurse Call System Module provision only to be provided by MGPS bidder, however it seems that the same is missed while preparing amendments. You are requested to kindly clarify and confirm the	Nurse Call System Module (Cutout/provision only) - 1 No.

	same.	
6.	You are therefore once again requested to kindly consider the above changes for amendment and issue corrigendum along with time extension for at least 7 working days from the date of amendment.	Last date of bid submission is extended to 20.03.2020.
7.	Page no. 14- 17 6. Alarm System (Touch/Digital Type) We request the Alarm System should be Touch Type Alarm Technology instead of Touch/Digital Type. The touch type alarm system has the facility of advanced programming wherein you need not to open the box, as it is sensor based. Now a day everywhere touch technology is prevalent, mobile phone is the latest example. We request Touch Type Alarm Technology should be adopted which is the latest one.	Tender terms & conditions prevail.
8.	Tech. Spec.-Page 20-21 11.2 Ward Vacuum Units The vacuum regulator will be step-less adjustable and have large vacuum gauge providing digital/analogue indication of the suction supplied by the regulator. Kindly refer to the Amendment-II dated 09.03.2020"Regulators should be BIS / European CE Marked with 4 digit notified body number /UL/ USFDA Certified". Sir, you have kept 1 certification each i.e. BIS for Indian Made; European CE Marked with 4 digit notified body number for European Union; then why 2 certifications UL/USFDA, once both the certification belongs to USA. Secondly imported item will escalate the budget. It will be very difficult to maintain the estimated cost allowed for MGMS Tender. We request to kindly allow BIS/CE Marked/UL Listed.	BIS/CE Marked/UL
9.	Tech. Spec.-Page 21 11.3 Theatre Vacuum Units The vacuum regulator will be step-less adjustable and have large vacuum gauge providing Digital/Analogue indication of the suction supplied by the regulator.	BIS/CE Marked/UL

	Kindly refer to the Amendment-II dated 09.03.2020"Regulators should be BIS / European CE Marked with 4 digit notified body number /UL/ USFDA Certified". Sir, you have kept 1 certification each i.e. BIS for Indian Made; European CE Marked with 4 digit notified body number for European Union; then why 2 certifications UL/USFDA, once both the certification belongs to USA. Secondly imported item will escalate the budget. It will be very difficult to maintain the estimated cost allowed for MGMS Tender. We request to kindly allow BIS/CE Marked/UL Listed.	
10.	Volume-II, Page 18, GCC Clause 21.0 Insurance of Works and Contractor's Equipment & elsewhere in the tender The Contractor shall, without limiting his or the Employer's obligations and responsibilities under Clause 20.1 to 20.4, insure: 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. In other words, Erection All Risks (EAR) Insurance can be provided upto FAC. So, we request the insurance should be upto Final Acceptance Certificate only and not beyond it.	Tender terms & conditions prevail.
11.	Volume-I, Pre-Qualification Criteria; Page no. 5 & 6, Clause no. 2.2 (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: Three similar* completed works costing not less	Tender terms & conditions prevail.

	than the amount equal to 40% of the estimated 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. *Similar nature of works means successful completion of supply, Installation, testing and commissioning of Medical Gas Manifold System in India. We request the clause of the tender should be further clarified as following: "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." 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. Please refer to M/s HSCC Shimla Tender clarification papers taking the cognigenze of this and had issued Amendment. 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. Kindly refer to HSCC AIIMS Rajkot Tender Page 3 Sr. 3, Minimum Eligibility Criteria "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." We therefore request to kindly clarify regarding private works.	
12.	Volume-III, Page no. 38 & 39 SCC Clause no. 21.0 Terms of Payment 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 had submitted our request earlier also regarding the payment terms, where in Amendment-II you have not considered our request. We are re-submitting our request: 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. With regard to 20% payment, please be noted that	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.

	commissioning and taking 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. We therefore request, the payment terms should be; 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 installations by M/s HSCC. 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.	
13.	Common Estimated Cost Rs. 5.40 Crore. Kindly refer to Amendment-II, the major amendment that 09 items should be from same principal/ manufacturer can be procured from Foreign Source only as no Indian Manufacturer can provide these items. It will escalate the estimated cost of the tender. We therefore request to kindly increase the estimated cost of the tender by atleast 20%.	Tender terms & conditions prevail.
14.	Common Amendment-II Dated: 09.03.2020 Tender Submission: 13.03.2020 Please appreciate, you have incorporated/clarified too many changes in commercial & technical part of the tender. The technical changes are directly related to foreign principal/manufacturer; we request kindly also give us time for discussions with our foreign manufacturer/principal for taking cognizance of the changes. Giving just 1 or 2 days are not sufficient as the amendment done will directly effect the pricing part. We therefore request to kindly extend the tender submission date for atleast 1 week i.e. upto20.03.2020, enabling us to submit competitive bid.	Last date of bid submission is extended up to 20.03.2020.

15.	Vol 4 - Technical Specifications, Page3, Para 1 b 1. b Fully Automatic Oxygen Control Panel. e) The control panel incorporates six coloured LED's, therefore the Left Bank and three for the Right Bank: One for Bank in use, One for Bank ready and One for Bank empty. This is a limiting clause and is tilited towards NFPA Standard. It is notpossible to meet word by word requirement in toto of TechnicalSpecs, as this is make specific. We request you to permit us to offeras per should fully meet and complies with ISO 7396-1 standards andas per manufacturers own design.	NFPA-99c/HTM-02-01/ ISO-7396-1/DIN/EN(Latest version) supersedes single/multiple standards mentioned at any other places in the tender specification involving item/system/capacity etc
16.	Vol 4 - Technical Specifications, Page9, Para e Interconnection to LMO 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 and routing to be estimated.	Within 150 m
17.	Vol 4 - Technical Specifications, Page10, Para 2 b 2.b Fully Automatic Nitrous Oxide Control Panel The control panel incorporates six coloured LED's, three for the Left Bank and three for the Right Bank: One for Bank in use, One for Bank ready and One for Bank empty. This is a limiting clause and is tilted towards NFPA Standard. It is notpossible to meet word by word requirement in toto of TechnicalSpecs, as this is make specific. We request you to permit us to offer as per should fully meet and complies with ISO 7396-1 standards and as per manufacturers own design.	NFPA-99c/HTM-02-01/ ISO-7396-1/DIN/EN(Latest version) supersedes single/multiple standards mentioned at any other places in the tender specification involving item/system/capacity etc
18.	Vol 4 - Technical Specifications, Page10, Para 3.0 Vacuum system shall be having system capacity of 220 cfm(±5)/6228 LPM at 19" Hg to be delivered to the hospitalwith necessary standby arrangement as per therequirement of the relevant International Standard. Vacuum system should conform to NFPA-99c/HTM-02-01/ISO-7396-1/DIN/EN. We request to amend the tolerance as (±10%) of plant capacity. Our Vacuum system generates 6666 lpm.To avoid ambiguity, we request you to	Standby should be as per standard.

	confirm the standby &Reserve plant capacity which is required to be provided. Note: The standby capacity requirement is different in ISO & NFPA Standards.It may be noted that, as per NFPA standards, the plant consisting of vacuum pumps, shall be capable of providing scheduled primary capacity with one pump out of service. And whereas, for a ISOSystem, the primary capacity is required to be achieved with at least2 pumps out of service. Thus, It is quite evident that the ISO systemdemands more number of standby pumps.In that case, how will the comparison and technical evaluation bemade then?	
19.	Vol 4 - Technical Specifications, Page10, Para 3.0 The system shall be consisting of lubricated rotary vanevacuum pumps with Control Panel equipment and onetank. We request to amend the number of tanks to 1/2/3 to facilitate ease of shipment. It is to be noted that as per HTM the tank capacity required shall be equal to plant capacity. We further request you to clarify on the size of tank required forbidders who wish to offer as per NFPA, as this is not clearly mentioned / recommended in the standard. Our concern is that comparison and evaluation has to be done appleto apple while seeking for products from different standards. Hence, to avoid ambiguity, we request you to kindly inform the minimum size of Vacuum Receiver required to be supplied.	NFPA-99c/HTM-02-01/ ISO-7396-1/DIN/EN(Latest version) supersedes single/multiple standards mentioned at any other places in the tender specification involving item/system/capacity etc
20.	Vol 4 - Technical Specifications, Page11, Para 4.0 The Compressed air system shall be to provide minimum system capacity 150(±5)Scfm/4250 LPM at 8.5bar to be delivered to the hospital with necessary standby arrangement as per the requirement of the relevant standard with Scroll/Screw air compressors, allied equipment, suitable tank and control panel. We request to amend the tolerance as (±10%) of plant capacity.	Standby should be as per standard.

	To avoid ambiguity, we request you to confirm the standby &Reserve plant capacity which is required. Note: The standby capacity requirement is different in ISO &NFPAStandards.It may be noted that, as per NFPA standards, the plant consisting of vacuum pumps, shall be capable of providing scheduled primary capacity with one compressor out of service. And whereas, for a ISO System, the primary capacity is required to be achieved with at least2 compressors out of service. Thus, it is quite evident that the ISOsystem demands more number of standbypumps. In that case, how will the comparison and technical evaluation be made then?	
21.	Vol 4 - Technical Specifications, Page11, Para 4.0 The Compressed air system shall be to provide minimum system capacity 150(±5)Scfm/4250 LPM at 8.5bar to be delivered to the hospital with necessary standby arrangement as per the requirement of the relevant standard with Scroll/Screw air compressors, allied equipment, **suitable tank** and control panel. 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 of all standards. If an open-ended statement like suitable tank is mentioned, then this would be a huge disadvantage for HTM eqpt suppliers. It may be noted that, the Air receiver size required for HTM plant is50% of Primary Plant Capacity. In this case the Primary Capacity is10000 LPM, therefore the Air Receiver Capacity required would be5000 LtrsCapacity. Contrarily, NFPA does not have any guideline on sizing of thecapacity of Air Receivers. It has been left to the discretion ofmanufacturers.It has been observed that vendors of Medical Air Systems of NFPAStandards usually supply a small capacity Air Receiver, usuallyapprox only 240 US Gallons (908 Ltrs).Hence, to avoid this ambiguity and parity in evaluation and comparison, we suggest that minimum capacity of Air Receiver be clearly specified in the amended tender specs, and which should be followed by all bidders.	Tender terms & conditions prevail.
22.	Vol 4 - Technical Specifications, Page14, Para 6.0	NFPA-99c/HTM-02-01/

	6.0 Alarm System (Touch/Digital Type) The specification is tilted towards NFPA Standard. It is not possible to meet word by word requirement in toto of Technical Specs, as this is make specific. We request you to permit us to offer as per should fully meet and complies with ISO 7396-1 standards and as per manufacturers own design.	ISO-7396-1/DIN/EN(Latest version) supersedes single/multiple standards mentioned at any other places in the tender specification involving item/system/capacity etc
23.	Vol 4 - Technical Specifications, Page17, Para All Down drops shall be installed at one end preferably &Vertical drop installed at one end should be covered with Aluminium boxing with matching color. As per BOQ file, the BHP's are individual units totalling 57 Nos. Please clarify if the drop lines are required to be covered for all individual BHP's. If yes, please specify the length qty of matching aluminium covering required.	Aluminium boxing for drop down is deleted.
24.	Vol 4 - Technical Specifications, Page17, Para Entire pipe line shall run in continuous horizontal panelswith no break for each unit & length as per area where ithas to be installed As per BOQ file, the BHP's are individual units totalling 57 Nos. The Technical Specs and BOQ are contradictory. Please clarify	BHP's are individual units totalling 57 Nos.
25.	Vol 4 - Technical Specifications, Page17, Para Following accessories should be provided locally withHBHP; i) 5/15 Amp Modular Electrical Sockets with switches = 6sets ii) IV Pole = 2nos iii) Vacuum slide = 1no. iv) Sliding blocks = 2nos. v) Nurse call system module = 1No. vi)) Infusion Pump Mounts = 1 No vii) Monitor Tray with Slider = 1 No. viii) Utility Basket = 1 No. We have observed in other tenders that the	Should be provided locally

	accessories are oftenarranged and provided from local market. Please confirm if this is acceptable, or is it explicitly required to be completely imported. Please provide detailed technical specs of all the requiredaccessories.	
26.	Vol 4 - Technical Specifications, Page17, Para 8.0 Valve Boxes Please confirm the Valve Size and gas configuration required for each type of Valve Box.	Tender terms & conditions prevail.
27.	Vol 4 - Technical Specifications, Page17, Para 8.0 Valve Boxes A Each recessed zone valve box shall consist of thefollowing components: A steel valve box which can house single or multiple shut-off ball valves with tube extensions, A**three-piece design Valve**, an aluminium frame, and a pulloutremovable window. It may be noted that the three-piece design valves are supplied byNFPA bidders.HTM & ISO Bidders supply valves which are of **two Piece designalong with removable end fittings**. We request you to amend this by including **three piece design Valve/ two Piece design along with removable end fittings** in the specifications	NFPA-99c/HTM-02-01/ ISO-7396-1/DIN/EN(Latest version) supersedes single/multiple standards mentioned at any other places in the tender specification involving item/system/capacity etc
28.	Vol 4 - Technical Specifications, Page17, Para 8.0 The window shall be marked with the following: - "CAUTION: MEDICAL GAS CONTROL VALVECLOSE ONLY IN EMERGENCY" This is a limiting clause and as tilted towards NFPA Standard. It is notpossible to meet word by word requirement in toto of TechnicalSpecs, as this is make specific. We request you to permit us to offeras per should fully meet and complies with ISO 7396-1 standards andas per manufacturers own design.	NFPA-99c/HTM-02-01/ ISO-7396-1/DIN/EN(Latest version) supersedes single/multiple standards mentioned at any other places in the tender specification involving item/system/capacity etc
29.	Vol 4 - Technical Specifications, Page18, Para 9.0 Anaesthesia Gas Scavenging System Please specify the Primary and Standby capacity of AGSS Plant.	Mentioned above

30.	Vol 4 - Technical Specifications, Page19, Para 9 9.0 Anesthesia Gas Scavenging System As per HTM & ISO Standards, the Blower type Pumps are normally used in the AGSS System. Please confirm if this is acceptable.	Should be as standard.
31.	Vol 4 - Technical Specifications, Page20, Para 11.2 Ward vacuum Units: Collection bottle 500 and 2000ml with mounting arrangement. The standard size available is 600ml or 2000 ml. Please clarify which is the exact type required.	Tender terms & conditions prevail.
32.	Vol 4 - Technical Specifications, Page21, Para 11.2 Ward Vacuum Units: Suction Controller/ Regulator (Digital type- easy view) The standard practise is Analog Suction Regulators. Even in yourrecent tenders for 3 AIIMS (Nagpur Kalyani & Guntur) you haveasked for Digital / Analogue Suction Regulators. Hence we request you to amend the sentences as Digital / Analogue Suction Regulator.	Tender terms & conditions prevail.
33.	Vol 4 - Technical Specifications, Page21, Para 11.3 Theatre Vacuum unit for OT: The vacuum regulator will be step-less adjustable and havelarge vacuum gauge providing Digital indication of the suction supplied by the regulator. 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.	Tender terms & conditions prevail.
34.	Vol 4 - Technical Specifications, Page22, Para 12 Gas Outlets: Terminal units socket shall be permanently coated with alow friction fluoropolymer for maximum	NFPA-99c/HTM-02-01/ ISO-7396-1/DIN/EN(Latest version) supersedes single/multiple standards mentioned at any other

	reliability andservice life. The specifications are limiting clause and is make specific. We request you to permit us to offer as per should fully meet and complies with ISO 7396-1 standards and as per manufacturers own design.	places in the tender specification involving item/system/capacity etc
35.	Vol 4 - Technical Specifications, Page23, Para 13b Fully Automatic Carbon di Oxide Control Panel This is a limiting clause and is tilted towards NFPA Standard. It is notpossible to meet word by word requirement in toto of TechnicalSpecs, as this is make specific. We request you to permit us to offer as per should fully meet and complies with ISO 7396-1 standards andas per manufacturers own design.	NFPA-99c/HTM-02-01/ ISO-7396-1/DIN/EN(Latest version) supersedes single/multiple standards mentioned at any other places in the tender specification involving item/system/capacity etc
36.	Vol 4 - Technical Specifications, Page24, Para 14 Low Pressure flexible Silicon tubing Please provide Technical Specification for this.	Tender terms & conditions prevail.
37.	Vol 4 - Technical Specifications, Page24, Para 15 Line Isolation Valves The Lockable line valves must European CE mark/UL listedand complies with HTM 02-01/ NFPA99 C/EN/DIN/ISO7396-1 standard. Please confirm if this is Imported or Indigenous make. Can we offer indigenous make? It has been observed that some bidders are offering RB make valvesand passing it on as CE Certified. It may be noted that RB Valves donot manufacture Valves suitable for Medical Oxygen Use, and thoseare strictly not permitted to be used in MGPS.	Tender terms & conditions prevail.
38.	Vol 4 - Technical Specifications, Page24, Para 16 Bidder must take into consideration in its bid, costs to beincurred for any additional work pertaining to Civil,Electrical, Mechanical and any other protections Please clarify if the Civil works required for LMO Plant will be doneby the customer or needs to be arranged by bidder.	Tender terms & conditions prevail.
39.	Vol 4 - Technical Specifications, Page25, Para 16	Tender terms & conditions prevail.

	Installation of all electrical cabling must be of IS: 1554 We presume the Electrical Cabling termination to the Bed Head Unitswill be done by customer. Please confirm	
40.	Vol 4 - Technical Specifications, Page25, Para 16 Ventilation of Plant Room and Manifold Room of the MGMSand exhaustion of suctioned gases/air from the Vacuumunit exhaust blowers. Please confirm if Plant & Manifold Room are already available at site,or does this have to be constructed by bidder. We request you to provide complete drawings of the project sitewith locations clearly earmarked.	Tender terms & conditions prevail.
41.	Vol 4 - Technical Specifications, Page25, Para 16 Arrangement for requisite Fire Extinguishing for the entire effective zones in the Manifold and Plant Room Please specify the quantities and specifications of the fireextinguishers required.	Tender terms & conditions prevail.
42.	Vol 4 - Technical Specifications, Page25, Bidder should quote Cost of CMC which shall be consideredfor ranking purpose in tender evaluation. Please confirm if the Purchase Order when placed shall be inclusiveof CMC.	Tender terms & conditions prevail.
43.	Vol 4 - Technical Specifications, Page26, Third party Validation (Optional) should be quoted by thecontractor. Third party validation works should be done bythe authenticated/eligible party. The offered cost will beconsidered for ranking purpose. Please confirm if the Purchase Order when placed shall be inclusiveof work for Third Party Validation.	Tender terms & conditions prevail.
44.	Vol 1- Page 3 Last date of Bid Submission – 04.03.2019 We request you to kindly extend the date of bid submission byat least 3 weeks from date of release of Pre-Bid Query replies.	Last date of bid submission is extended till 20.03.2020.

45.	Vol 1- Page 3 Period of work completion – 5 Months Considering the quantum of work and imported equipment to be arranged. We request you to kindly amend the work completion time to minimum 8 Months	Tender terms & conditions prevail.
46.	Vol-III, Special Conditions of Contract, Page No. SCC- , Clause 39.2.4, Page25 Water Supply & Power Supply The Contractor shall make his own arrangement for water supply at Site for drinking as well as construction purposes from the source provided by the client. The contractor will provide water & electricity to the Consultant's office free of cost for the required quantity bythe Consultant's site office. We request the Owner to provide construction water and electricpower on chargeable basis.	Tender terms & conditions prevail.
47.	Vol-II, General Conditions of Contract,Clause 47.1 & Annexure-B (AppendixTo Tender), Page 38 & 71 Liquidated Damages for Delay: Amount of Liquidated damages: 1% (one percent) of contract price per calendar week of delay .Limit of liquidated damages: 10% (Ten percent) of contract price Please consider the aggregate maximum of liquidated damages payable under clause No. 47.1 shall not exceed 0.05% of contract value per week of delay and shall be subjected to maximum amount of 5% on overall contract price.	Tender terms & conditions prevail
48.	Vol-III, Additional Specific Conditions of Contract, Page No. SCC-, Clause21.0 Terms of Payment: For purposes of estimating the contract value of works executed for certificate of payment, the following norms shall be followed: 1) 65% of the BOQ contract rates on delivery of equipment sat site after inspection and passing on pro-data basis 2) 25% of BOQ contract rates on satisfactory take	1) 70% of the BOQ contract rates on delivery of equipment at siteafter inspection and passing on pro-rata basis 2) 20% of BOQ contract rates on satisfactory take over certificate by client after erection and installation, testing and commissioning ofequipment.

	over certificate by client after erection and installation, testing and commissioning of equipment on pro-data basis 3) 10% of BOQ contract rates after successful completion of trial run of 30 days from the date of handover to theclient on pro-data basis. We would request to consider following payment terms: 1) 70% of the BOQ contract rates on delivery of equipment at siteafter inspection and passing on pro-data basis 2) 20% of BOQ contract rates on satisfactory take over certificate byclient after erection and installation, testing and commissioning ofequipment on pro-data basis 3) 10% of BOQ contract rates after successful completion of trial runof 30 days from the date of handover to the client on pro-data basis. Moreover after mechanical completion if the commissioning of the MGMS system is got delayed for more than 3 months due toreasons not attributable to Contractor then payment linked to this activities shall be released against submission of B.G. of equivalent amount.	3) 10% of BOQ contract rates after successful completion of trial runof 30 days from the date of handover to the client.
49.	General Point DLP Period Start Date After completion of installation works, if the commissioning of theMGMS system is delayed for more than 3 months due to reasonsnot attributable to Contractor, then DLP period start date would be considered from that date. Please confirm.	Tender terms & conditions prevail
50.	General Point BOCW (Building & Other Construction Workers Act) Please confirm if BOCW cess will be applicable to this job.	BOCW cess shall be applicable to this job.
51.	General Point Customs Duty Please confirm customs duty is under customer or bidders' scope.	Customs duty is under bidders' scope.

	Also confirm the applicable rate of customs duty for the job.	

All other terms & conditions remain unchanged.

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