

SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF MGPS FOR CONSTRUCTION OF NEW OP BLOCK AT GH ALAPPUZHA				
Re-Tender no. HITES/IDS/22/03 dated 29.04.2022				
Pre Bid meeting Date & Time: 22.03.2022 at 2.30 pm				
Pre Bid meeting Venue: HITES Office, Golden Jubilee Block, Poojapura (Through Video Conference)				
Reply to pre-bid queries				
S.No.	Tender Reference	As per Tender	Bidder Queries	Reply by HITES
	Vol-01 NIT Vol -03 SCC& Technical Specification:	Bidder shall be responsible for complete design, supply, installation, testing and commissioning including Civil Modification works, demolition and construction as applicable. The bidders are required to survey the site before furnishing the quotations.	<p>Please clarify the type of ceiling in the building – is it a gypsum plastered ceiling or false ceiling tile-type?</p> <p>If it is gypsum plastered ceiling, it will require a significant demolition works to be carried out and repair works in the ceiling.</p>	<p>No Change, Terms & conditions of e-tender prevail False ceiling includes both gypsum and tile type.</p>
			<p>Kindly specified the civil work that has to be taken by vendors (Ceiling (gypsum), flooring etc....</p>	<p>No Change, Terms & conditions of e-tender prevail 1) Construction of Manifold room (Civil & Electrical works) is not in the scope of MGPS bidder, however all Internal Electric distribution for MGPS Plant & Manifold Room will be done by the Bidder. 2) False ceiling includes both gypsum and tile type.</p>
			<p>Referring to Vol IV BOQ, no item is given to put or rates for "the civil, electrical, plumbing, fire safety, false ceiling trap door/ cutout and repair (if any) and other works"</p> <p>Request you clarify the extend of this scope of these works.</p> <p>Also please clarify whether the plant rooms, manifold rooms also come under the scope of this tender?</p>	<p>No Change, Terms & conditions of e-tender prevail Construction of Manifold room (Civil & Electrical works) is not in the scope of MGPS bidder, however all Internal Electric distribution for MGPS Plant & Manifold Room will be done by the Bidder.</p>
1			<p>All related civil works which include but not limited to demolition, fixing, fastening, drilling, welding, painting and electrical works should be carried out as per specification by the bidder. Bidder will be responsible for other associated work related to installation and commissioning of complete MGPS system.</p>	<p>It states that all required CIVIL, ELECTRICAL, PLUMBING, FIRE SAFETY, FALSE CEILING TRAP DOOR/ CUTOUT & REPAIR (if any) and other works as maybe required for complete installation and trouble free functioning as a part of CIVIL MODIFICATION. In generic terms, RCC FOUNDATIONS for MVAC & MAIR Pumps are executed by the CIVIL CONTRACTOR. Because these Statements made in this Sub-Section and other Sub-Sections (already mentioned above are contradicting). Clarify in succinct terms what is included and what is not?</p>
		<p>Bidder shall execute all required civil, electrical, plumbing, fire safety, false ceiling, trap door / cutout and repair (if any) and other works as maybe required for complete installation and trouble- free functioning as a part of the 'civil modification work'.</p>	<p>To be deleted from the tender. Please be informed that our scope of work is confined to SITC of MGPS only, however we are not specialized in various other services like civil, electrical, plumbing, fire safety, false ceiling, and other works as required. We therefore request you to kindly delete this line from MGPS Bidder scope of work.</p>	<p>Terms & conditions of e-tender prevail</p>
		<p>Bidder will be responsible for other associated work related to installation and commissioning of complete MGPS System.</p>	<p>Further, if it is still required to be done by MGPS Bidder, we request you to kindly quantify the same in the BOQ of tender.</p>	

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2	Vol-01NIT	Bidder shall be responsible for free maintenance of all component of Gas pipeline system during warranty period including all filters & consumables.	Please be informed that usage of consumables completely depends upon the hospital / User requirement and it can't be included in the warranty as this is an unwarranted burden on the bidder. We therefore request you to kindly delete the work "Filters and Consumables" from the technical specification.	Terms & conditions of e-tender prevail
3	Vol-01NIT	The third-party compliance certification after installation to be done for the standard followed i.e HTM 02-01/NFPA 99C/DIN/EN/ISO-7396-1 except copper pipe from the authorized agency. The cost for the same will be borne by the bidder.	The Third Party quality certification of the MGPS equipment is missed out in the BOQ of tender for pricing. Please clarify. Also Clarify the same will be charged extra and not included in the BOQ. Hence the certificate will be costed extra	Terms & conditions of e-tender prevail. The quoted rates by the bidder shall be inclusive of all charges.
4	Vol -03 SCC& Technical Specification:	1.1 Fully Automatic Oxygen Control Panel: The Automatic Control Panel should be installed in such a way to meet the peak flow requirement of the Hospital/Institute.	The bidder says that " This paragraph is in contradiction with the Flow rate mentioned in the tender. Since you have already stated the flow rate in the tender,hence the same will supersede.Incase you require additional Control panel, same should be quantified in the tender BOQ as it is invalid to ask for additional Control Panel in the cost of 1 no. Control Panel". and they requested to be delete this paragraph from technical specifications of tender documents to avoid contradiction at a later stage.	Terms & conditions of e-tender prevail
5		The heavy-duty control panel should be provided with a flow capacity of 1500 or more LPM at 50 to 60 psi	The flow rate mentioned of 1500 LPM is not sufficient to cater the requirement in emergency situation. Hence we request you to kindly ask for a control panel of minimum 2000 LPM or more.	Terms & conditions of e-tender prevail
6	Vol -03 SCC& Technical Specification:	2.1 Fully Automatic Nitrous Oxide Control Panel :The Automatic Control Panel should be installed in such a way to meet the peak flow requirement of the Hospital/Institute	This paragraph is in contradiction with the Flow rate mentioned in the tender. Since you have already stated the flow rate in the tender,hence the same will supersede.Incase you require additional Control panel, same should be quantified in the tender BOQ as it is invalid to ask for additional Control Panel in the cost of 1 no. Control Panel.The bidder requested to delete this paragraph from technical specifications of tender documents to avoid contradiction at a later stage.	Terms & conditions of e-tender prevail

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7	Vol -03 SCC& Technical Specification:	3. Medical and Surgical Air System (Package Unit)	Please clarify whether you require a imported Package Unit Product, where all the accessories like Air Dryer, Air Filter, Receiver Tank and Control Panel is of same make, same standard and same country of origin and manufactured by one manufacturer or your requirement is for a "DIY" System, wherein all the accessories can be procured from separate manufacturer to make it a Package unit product.	The Medical and surgical air system should comprises of the components as per BOQ. The package unit can be either imported Package Unit Product, where all the accessories like Air Dryer, Air Filter, Receiver Tank and Control Panel is of same make, same standard and same country of origin and manufactured by one manufacturer or all the accessories can be procured from separate manufacturer to make it a Package unit product.

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8		Padlocks available to allow locking of the valves in both open and closed positions and must have easy to read pressure gauges.	Please be informed that availability of Padlocks depends upon standard requirement. Hence, we request you to kindly mention, "if applicable to standard" same must be provided.	Terms & conditions of e-tender prevail
9	Vol-03- SCC& Technical Specification	4. VACUUM SYSTEMS (Package unit)	Please clarify whether you require a imported Package Unit Product,where all the accessories like Vacuum Pump, Bacteria Filter,Receiver Tank and Control Panel is of same make, same standard and same country of origin and manufactured by one manufacturer or your requirement is for a "DIY" System, wherein all the accessories can be procured from separate manufacturer to make it a Package unit product.	Vacuum system should comprises of the components as per BOQ. The package unit can be either imported Package Unit Product, where all the accessories Vacuum Pump, Bacteria Filter,Receiver Tank and Control Panel is of same make,same standard and same country of origin and manufactured by one manufacturer or all the accessories can be procured from separate manufacturer to make it a Package unit product.
10	Vol-03- SCC& Technical Specification	7. AGSS (Anesthetic Gas Scavenging System) Plant	Please clarify whether you require a imported Package Unit Product,where all the accessories like AGSS Pump, Receiver Tank and Control Panel is of same make, same standard and same country of origin and manufactured by one manufacturer or your requirement is for a "DIY" System, wherein all the accessories can be procured from separate manufacturer to make it a Package unit product. also please confirm Inadvertently SN. 7 (Second should be 8), This will have DOMINO EFFECT for SN's 8 until 21 WHICH SHOULD BE REVISED AS SNs 9 until 22. Just check and change as deemed feasible.	AGSS System should comprises of the components as per BOQ. The package unit can be either imported Package Unit Product, where all the accessories AGSS Pump, Receiver Tank and Control Panel is of same make,same standard and same country of origin and manufactured by one manufacturer or all the accessories can be procured from separate manufacturer to make it a Package unit product.
11	Vol-03- SCC& Technical Specification	12.1Master Alarm System: The master alarms should be capable to monitor minimum 40 Point.	Monitoring of alarm indication is specific to one company, we request you to kindly amend the same to allow fair participation to all the bidders.	Terms & conditions of e-tender prevail
		The master alarm must be able to monitor the following source alarm conditions: Vacuum Deficiency Vacuum Reservoir	Due to constant supply of vacuum gas and loading / unloading of reservoir, it is not feasible to display the pressure of tank on the master alarm. This seems to be a company specific point and not product specific and we request you to kindly delete one company specific feature from tender.	
12	Vol-03- SCC& Technical Specification	Electrical Wiring with Electrical Panels –		
		All wiring inside the Manifold Room and Plant room required for MGPS equipment and General electrification	General Electrification word may please be deleted as form one word it is difficult to quantify the actual work required to be done at site.Further MGPS Vendor are not specialized to do such electrical works, hence we request you to kindly delete the same from the technical specification as it is economical for hospital to be done directly from the electrical vendor. Incase the same is required to be done through MGPS bidder, same has to be quantified in the BOQ of tender.	Terms & conditions of e-tender prevail

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		Electrical Wiring and Control Panel Site Modification Work	These items are mentioned in the specifications, but not mentioned in the BOQ of tender. We request you to kindly mention the same to allow us to quote rates.	Terms & conditions of e-tender prevail
13	Page No.38-39	Point No.10 - Has the applicant or any constituent partner in case of partnership firm, ever been debarred/black-listed/penalized for Bidding in any organization a any time? If so, give details	Please also note that the Government of India rules and norms laid down by CVC do have provision for disqualifying companies who have been blacklisted or debarred from Government contracts. But there is absolutely no provision for disqualifying any company from a tender merely due to adverse ruling by any government agency.	Terms & conditions of e-tender prevail. Please refer sl.no.3 in Form_F (Affidavit) of this tender
	Page No. 47, Point No. 3	Form F (Affidavit) The undersigned also hereby confirmed M/s _____ have not been blacklisted/debarred/penalised by any government agency or public sector undertaking or judicial authority/arbitration body.	Further, as you are aware 80% of business houses in all the industries like steel, cement, airlines etc. have had adverse ruling against them by government agencies like CCI. If such a practice was to be followed and they were debarred from the tender business, the economy of the country would come to a standstill. In fact strictly speaking it is not legal to bar a company from participating in a tender due to such a ruling by CCI. We therefore request you to kindly delete the word "Penalized" from the tender and allow all the competitive bidders to participate in the tender.	
14	Vol-01 NIT Page No.12-13, 1.4.1 B	Eligibility Criteria The bidder should have service facility in South India. Proof for the same shall be submitted along with the bid. (Note: The bidder shall have their own service facility / office in South India or shall have tie-up with agencies/firms based at South India who are engaged in the SITC and maintenance of MGPS. The bidder shall also submit copy of notarized MoU / agreement entered with service partner, valid till 31/12/2025 along with the bid.bid. Profile of service partner shall also be submitted along with the bid. Bidders satisfying the above condition will only be considered for evaluation. Presence of service engineers / engineers from South India working in bidders firm will not be considered for this purpose. Bidders shall also submit declaration as per Form- F attached to this document)	The bidder should have service facility in South India. Proof for the same shall be submitted along with the bid. In case the bidder do not have existing Service Centre at the time of tender, they have to submit Undertaking to establish Service Centre against award of Contract. Since the tender is an Open tender, and you have allowed all the bidders from PAN India to participate in the tender, we request you to kindly delete restrictive clause of tender, which only allows bidders from South India to participate in the tender. If mandatory, the following three documents will suffice to establish proof of service agreement with an agency/firm based in South India: 1. Memorandum of Understanding/Agreement with Agency 2. GST certificate of agency 3. Company Profile of agency	Yes. The MoU/agreement shall be valid till 31/12/2025 Terms & conditions of e-tender prevail.
			According to the tender only those who are having the office in Kerala can participate in this tender. So we are having a small office with GST at Kochi. Are we eligible for this tender or not? We are having a rented property at Kochi. So is it compulsory to submit the building cess certificate. Please remove this requirement, because this is against the policy of equal opportunity for all bidders from different states of the country; hence this restrict the eligible bidders from outside South India to participate in an Open Tender like this. We suggest you to either ask the successful bidder to open a service facility in South India/Kerala within 30 days on release of LOL. Or You should accept that in case company is having their dedicated engineer located within Kerala / South India will also be acceptable	
15	Vol-01 NIT Page No.13, Point No. E	"Similar Work" shall means work of Supply, Installation, Testing & Commissioning of Medical Gas Pipeline System (MGPS) in hospitals.	Please clarify, what do they understand by the below point as it is not clear. Own works/ work under the same management/ own certification of the bidder shall not be considered for pre-qualification.	Terms & conditions of e-tender prevail. The similar works submitted against eligibility criteria shall be the work executed for clients and not for bidder's own management / hospital

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16	Vol III SCC Appendix I- Responsibility of Bidder (16)	Control Panels & Manifold for O2, N2O & CO2. Medical Air Plant, Medical Vacuum Plant, AGSS Plant, Area & Master Alarm, All types Outlets, Oxygen flowmeter, AVSU, Line Isolation Valves, High Pressure Tubes shall comply with HTM 02-01/NFPA 99C/DIN/EN/ISO-7396-1 standards and bidder should submit applicable certificates along with the bid.	This particular clause has been mentioned in the technical specifications for majority of items. However, the corresponding certification for these standards have not been mentioned such as European CE certificate by notified body or UL listing. This may confuse bidders as to which item is required from imported origin and which item is of indigenous origin. Please clarify which item required from imported origin and which item is indigenous and the corresponding quality certifications you require for each item.	The Bidder may quote indigenous /imported items and submit applicable certificates.
17	Vol-01 NIT, Page-1	Last date & time to submit the e-tender: 10.05.2022 at 3.00 pm at	Please extend the last date and time to submit the e-tender to 17.05.2022 at 3.00 pm because our tendering executive was on holiday due to Eid-al-Fitr for 2 days and also would also like for our representative to visit site to take account of Civil Works.	Refer Corrigendum -02
18	Vol-01 NIT .1.4.1.p	The bidder shall submit item wise compliance statement to the technical specifications as per the tender and copy of technical data sheet, brochures etc to be submitted alongwith the bid.	MGPS is not a product, it's a part of service so is it compulsory to submit the compliance certificate for this purpose?	Refer Vol-01 NIT .1.4.1.p
19	Vol-01 NIT page no.47		According to this tender we have to submit the Form F as we are not a blacklisted company, so please mention the cost of notary required to be attached for this document.	Refer Vol-01 NIT page no.47 , Form F
20	Vol-01 NIT,1.4.1.e		According to this tender we have to attach the Form T4 as our performance of service in the MGPS system, so we want to make clear that we have done the services for a complete temporary hospital and MGPS is the part of it. Do the certificates of that service are equivalent for this work or not?	Refer Vol-01 NIT,1.4.1.e page no.13
21	Vol-01 NIT		According to this tender we have to submit the agreement for this tender, But as per rules the agreement should be submitted after the award of contract, So do we have to submit the agreement during the tender submission.	Terms & conditions of e-tender prevail
22	Vol II SCC Page No 11 and Page No 13	1.2 Oxygen Manifold Supply System (without Cylinders) 2.2 Nitrous Oxide Manifold (Without Cylinders) The size of Manifolds should be as mentioned in BOQ of respective Institute and it shall be compatible with Class-D type bulk cylinders. Manifold shall consist of two high pressure header bar assemblies to facilitate connection of primary and secondary cylinder supplies. Each header bar shall be provided with respective numbers of cylinder pigtail connections to suit cylinder valves as per IS.3224/ BS/ ASME incorporating a check valve at the header connection. Each header bar assembly shall be provided with a high pressure shut off valve. Oxygen Manifold should consist of 2 rows of respective numbers of class D-type bulk oxygen cylinders. The manifold should be hydraulically tested to 3500 psig. The manifold should be so designed that it shall suit easy cylinder changing and positioning. The system should have non – return valves for easy changing of cylinders without closing the bank. The cylinder should be placed with the help of cylinder brackets and fixing chains which should be galvanized.	Please note that your word by word and line by line specification of this item is make specific and restricted which needs to made as generic mentioned below. "Oxygen Manifold Supply System shall comply with HTM 02-01/ NFPA 99 C/EN/DIN/ISO 7396- and also product must be registered under Government of India CDSCO and CE" For a Fully automatic Changeover Manifold the requirement of "Each header bar assembly shall be provided with a high pressure shut off valve" is not a recommendation as per HTM 02-01. This is a requirement for Manual Changeover Manifold Only as per HTM 02-01 Hence request you to amend the requirement as fully in compliance with HTM 02-01/NFPA 99C/ DIN / EN / ISO-7396-1	Terms & conditions of e-tender prevail
23	Vol II SCC Page No. 10	Vol II SCC Page No. 10 12 The Medical Gas Pipe Line System must follow Single Standard any one only from: NFPA 99c/HTM 02-01/ ISO 7396-1/DIN/EN except Copper Pipe, for AGSS Ventury type is not acceptable Vol II SCC Page No. 18&19 Anesthetic Gas Scavenging System (AGSS) of minimum 1000LPM as Primary & 1000LPM as Standby. AGSS system shall comply with the requirements of the HTM 02-01/ NFPA 99 C/EN/DIN/ISO 7396-1 and bidder should submit applicable certificates along with the bid"	Please remove AGSS system from this requirement The Medical Gas Pipe Line System must follow Single Standard any one only from: NFPA 99c/HTM 02-01/ ISO 7396-1/DIN/EN because AGSS as per HTM uses simpler blower without any receiver against NFPA uses oil-less rotary vane vacuum pumps with receiver hence cost of NFPA AGSS/WAGD is almost ten times more than HTM AGSS under this particular plant price is not comparable among the mentioned "recommendations /standards by you."	Terms & conditions of e-tender prevail
24		The package should consist of rotary vane/claw type vacuum pumps (Dry/Oil less only), a control panel, and mounted on a common base frame.	AGSS as per HTM uses simpler blower against NFPA uses oil-less rotary vane vacuum pumps with receiver. Hence your requirement is contradictory and restricting. Hence request you to amend the requirement as fully in compliance with HTM 02-01/NFPA 99C/ DIN / EN / ISO-7396-1	

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25	Vol-2 SCC Page no 19	<p>8 DISTRIBUTION PIPING 8.1 Piping specifications Copper pipe should be as per standard BS: EN 13348:2008/ ASTM B819 standards. Solid drawn, seamless, deoxidized, non-arsenical, half hard (hard can be accepted only for sizes 54mm or more), tempered and degreased copper pipe conforming to the standard. All copper pipes should be degreased & delivered capped at both ends. The pipes should be accompanied with manufacturers test certificate for the physical properties & chemical composition. Copper pipe must have reputed third party inspection certificate (Eg. Lloyd's or TUV or SGS). Fittings should be made of copper and suitable for a working Pressure of up to 17bar and especially made for brazed socket type connections. All valves shall be pneumatically tested for twice the working pressure and factory degreased for medical gas service. Copper fittings should comply with EN 1254:1 factory degreased and brazing filler metals should comply with EN 1044. Fitting should be degreased, individually packed for medical use. The minimum thickness of copper pipes of 35mm and above outer diameter, should be 1.2mm and the thickness of copper pipes less than 28mm outer diameter, should be 1mm as mentioned in respective Institute's BOQ</p>	<p>Please note that your word by word and line by line specification of this item is make specific and restricted which needs to made as generic mentioned below.</p> <p>"Copper pipe should be as per standard BS: EN 13348:2008/ ASTM B819 standards"</p> <p>Please review the thickness of the pipe and amend the same as below (Complying to BS EN 13348, Table X)</p> <p>12mm – 0.6 mm 15mm – 0.7 mm 22 mm – 0.9 mm 28 mm – 0.9 mm 35 mm – 1.2 mm 42 mm – 1.2 mm 54 mm – 1.2 mm 76 mm – 1.5 mm 108 mm – 1.5 mm</p> <p>Aslso please clarify latest governing Standard is EN-13348 – 2016. Any reason why only 2008 Version has been specified when latest Standard with better Technical Specifications are available for implementation from Project Performance Perspective.</p>	Terms & conditions of e-tender prevail
26		<p>11 ALARM SYSTEM 11.1</p> <p>Master Alarm (Digital) Complies with HTM 02-01 / NFPA 99C/EN/DIN/ ISO 7396-1 Standards. Each Master Alarm should be modular in design and be fitted with required number of master alarm modules. The master alarms should be capable to monitor minimum 40 Point. Each point represents an alarm condition that the source equipment might have. When an alarm condition exists, a red light flashes and the audible alarm sounds. If several alarm conditions occur simultaneously, the most recent alarm light should flash, while the other alarm lights should remain lit. When an alarm condition is created, an audible alarm should be actuated. A dry contact module should be available to interface with a building management system. The box material should be of gauge steel of requisite thickness and equipped with mounting brackets. The emissions from alarms should conform with applicable standards. Master alarm management system should be designed to display alarm conditions from the source supply units indicating the broad status of the source equipment and manifolds as well as the master distribution status from the source supplies. Depending on the alarm priority, a visual and audible alarm should be initiated to indicate an alarm condition. Each panel shall display and/or input up to forty-point alarms. Panel should be ready to use with BMS system. The master alarm must be able to monitor the following source alarm conditions. • Oxygen Source Empty/Fault • Oxygen Cylinder Bank Empty/Fault • Oxygen Emergency Bank Empty/Fault • Air Compressor Faulty/Operation • Vacuum Pump Faulty/Operational • Vacuum Deficiency Vacuum Reservoir And Other MGPS Signals & Alarms</p>	<p>Please note that your word by word and line by line specification of this item is make specific and restricted which needs to made as generic mentioned below.</p> <p>"Master Alarm Panel shall comply HTM 02-01/ NFPA 99 C/EN/DIN/ISO 7396- and also product must be registered under Government of India CDSCO and CE"</p> <p>Please note that your word by word and line by line specification of this item is make specific and restricted which needs to made as generic mentioned below.</p> <p>"Master Alarm Panel shall comply HTM 02- 01/ NFPA 99 C/EN/DIN/ISO 7396- and also product must be registered under Government of India CDSCO and CE"</p> <p>"The box shall be made from extruded aluminium to prevent corrosion" This is a make specific and a restricting tender condition. As this is not a requirement HTM 02-01.</p> <p>Hence please amend this as "Metallic Powder Coated or Aluminium"</p> <p>It has been stated that Master Alarm should have the provisions of 40 Points to interface with BUILDING AUTOMATION SYSTEM/ BUILDING MGMT SYSTEM. Clarify what is the existing BMS available in the Existing Facility for forward planning. This would require PCB's with AUTOMATED DEVICES such as Transducers to convert Pressure to Electrical Signals of 4-20 Milli-Amps with connections to Remote Locations up to a distance of 5000 ft (1,524 Meters – 1.5 KM approx). Clarify</p>	Terms & conditions of e-tender prevail
26		<p>Bidder shall be responsible for all cabling from local alarm panels to master alarm panel . Master alarm should be integrated with BMS/HIS</p> <p>10 AREA VALVE SERVICE UNIT Area valve service units should fully comply and meet with HTM 02-01/NFPA 99C/EN/DIN/ISO7396-1. It should provide a zone isolation facility for use either in an emergency or for maintenance purpose The Area Valve Service Unit should incorporate a ball valve in a lockable box with emergency access. It should be reliable and easy to operate, easy purge, sample & pressure testing and emergency supply system. Medical gas/vacuum services should be fixed copper, piped to and from their respective area valve service units. A color-coded service identity label should be fitted behind the valve handle. The unit should provide a zone isolation facility. Gas Flow direction should be indicated. The box shall be made from extruded aluminium to prevent corrosion. All wetted parts (except seals and gaskets) should be brass or copper. Each unit assembly should be factory tested for gas tightness. Rubber pipe grommets should be provided to ensure any leaking gas does not escape from the unit into a wall cavity. All visible aluminum surfaces should be powder coated</p>		Terms & conditions of e-tender prevail

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27	Vol III SCC 1.1.8	Uptime in a year 98% uptime warranty and during CMC period on 24 (hrs) X 7 (days) X 365 (days)/basis	Basis is indicated as 24(Hrs.) x 7(Days) x 365(days). It should be either 24 Hrs. x 365 Days/ Year or 52 Weeks x 7 Days/ Week x 24 Hrs./ Day. This requires correction to establish UPTIME (98%) & corresponding DOWNTIME (2%) equivalent to 8585 Hrs. & 175 Hrs. respectively. Make changes as deemed necessary.	
28	Vol III SCC 2.3.1	Tender is invited for the installation and commissioning of MGPS for the Supply, Installation, Testing & Commissioning of MGPS for Construction of New OP Block at GH Alappuzha as per the NABH guidelines.	This Tender is for SITC of MGPS for the Construction of NEW OP BLOCK in accordance with NABH GUIDELINES. In order to minimize the LIFE CYCLE COSTS, as a standard code of practice, existing OEM's for the NEW PROJECT are selected to offer unpteen advantages from SPARE PARTS STOCKINGS & COSTING, MAINTENANCE HISTORY, MAINTAINABILITY etc. Unfortunately, Tender's Technical Specs. have been specified all together NEW OEMS's AS PER Bidder's preference. MMI strongly recommend to make appropriate changes in the Technical Specs. Verbiage for such optimal solutions.	Terms & conditions of e-tender prevail.
29	Vol III SCC 2.3.4, Paragraph 6 on PAGE 3 (Single Standard among various proposed Standards)	The Medical Gas Pipe Line System must follow Single Standard any one only from: NFPA 99c/HTM 02-01/ ISO 7396-1/DIN/EN	It is very clearly states out of 5 Design Criteria Systems (NFPA 99C/ HTM 02-01/ ISO 7396-1/ DIN/ EN), Bidder must adopt only one (1) System for the BIDDING PROCESS for MGPS System. Nonetheless, one of the major element missing is COMPLIANCE TO CERTIFICATION PROCESS for various Systems & Sub-Systems in the entire Sections of the Tender Documentation. This missing element must be augmented in the Tender Document appropriately to avoid any CONFUSION and for effective binding from Consultants & Client's perspective. It is essential to note that applicable CERTIFICATIONS for various Systems & Sub-Systems will be different. US based NFPA 99C Criteria should be UL/ ETL/ USFDA while European/ British based HTM 02-01 will have CE Certification, TUV, Lloyd, SGS etc.	Terms & conditions of e-tender prevail
30	Vol III SCC 2.3.4, Paragraph 3, Page 2 (Scope of AVSU & ALARM UNIT)	Installation and commissioning of area valve service unit and alarm unit for the operation theatre shall be done by the MGPS bidder.	Stated that the scope for these Units for Outside the OT is included in MGPS Bidder's Scope.	
31	Vol III SCC 2.5.1	Bidders are expected to inspect the site of the proposed work before offering rates and shall go through all the drawings, specifications and other tender conditions. The Bidder shall clearly understand the scope of work and shall offer the rates. Any further clarifications in the drawings and documents can be obtained from EIC/HITES.	It is stated that "FURTHER CLARIFICATIONS IN THE DRAWINGS & DOCUMENTS CAN BE OBTAINED FROM EIC/ HITES)". In this connection, since most of the BIDDERS are resident in different States of India, recommend to have the JOB EXPLANATION MEETING prior to the ZOOM CONFERENCE MEETING for QUERIES. As the precursor, standard code of Tendering & Bidding Procedure is to a PRE-RECORDED VIDEO with BACKGROUND STREAMING to demonstrate an OVERALL AERIAL VIEW for better understanding & clarity of the Scope. This Process, if adopted and implemented for future Bidding Projects would clarify all the ambiguities so that CLIENT will have an advantage to get the BIDS which is WIN-WIN from Client/ Consultants and Bidder's Perspectives. Clarify whether the proposed modality will help to streamline the BIDDING BUSINESS PROCESS?	Terms & conditions of e-tender prevail
32	Vol III SCC 2.6.1	Bidder may visit the site before bidding with prior permission. The bidders will have to integrate the OT with the medical gas pipeline that will be installed along with this work.	This is contradictory to the Statement of Sec. Sec. 2.3.4. What is extent of "INTEGRATION" referenced in this Section? Clarify.	Terms & conditions of e-tender prevail
33	Vol III SCC 2.4.3, page 3	The demolition work required shall be done by the bidders and the debris has to be removed from the site and disposed properly.	What is the distance of the assigned LANDFILL/ DISPOSAL SITES from Project Site to estimate the Transportation, Trucking, and Labor & Fuel Costs? Is there any Procedure to generate the MANIFEST No. issued by HOSPITAL MGMT. for Disposal to avoid Penalty Changes from ENVIRONMENT & POLLUTION BOARD AGENCY? Clarify.	Terms & conditions of e-tender prevail
34	Vol III SCC 2.6.5, page 4	The bidder must co-operate and co-ordinate with other contractors involved in other works on the site. The bidder should also note that they shall have to clear the site of vegetation, debris etc. before the commencement of the work and that no extra payment is permissible on this account.	Is this Sub-Section applicable for MGPS Bid Scope? Clarify	Terms & conditions of e-tender prevail .It is under MGPS vendor Scope.
35	Vol III SCC 2.6.11	No land, building belonging to or in the possession of the institution shall be occupied by the bidder. The bidder shall not use, or allow to be used, the site for any purpose other than that for executing the works. Under no circumstances, the roads within the institution campus shall be used for dumping/collection of materials by the contractor.	For ACCESS to the Trucks/ Vehicles deployed for MGPS Scope of Work, are their ALTERNATE TEMPORARY ROADS available or to be planned as a alternative? Clarify Sec. 2.6.11 (No lands should be occupied by the Bidder) & Sec. 2.6.12 (Permission shall be given to have Site Office) Page 5 These 2 referenced Sub-Sections are contradicting each other. Clarify what is correct and what is superfluous?	Terms & conditions of e-tender prevail.

S.No.	Tender Reference	As per Tender	Bidder Queries	Reply by HITES
36	Vol III SCC 2.6.17,Page 6 (Underground Utilities)	The bidder must take precautionary measures to protect the underground and other services lines viz. cables, water and sewer lines, etc. and observe any specific instructions which may be given in this regard by the representative of EIC/HITES / User Institution.	<p>Clarify whether PROJECT EXECUTION MGMT. follow PERMIT TO WORK (PTW) System? Also, in order to avoid damages to the Underground Utilities, are DRAWINGS available for BELOW GRADE? If yes, during the course of Project Execution, are such Drawings will be made available to plan the BEST ROUTING FEASIBLE & PRACTICAL by avoiding the already laid UG Utilities? Clarify</p> <p>This Sub-Section is of significant importance if the MEDICAL GAS MANIFOLD & PLANT ROOMS are away from the newly now Proposed Block which require TRENCHING, RCC COVERS with the Bearing Capacity of 40 Metric Tons (MT) classified as Extra High Density (EHD) in accordance with IS SPECIFICATIONS. Clarify</p>	Terms & conditions of e-tender prevail.

S.No.	Tender Reference	As per Tender	Bidder Queries	Reply by HITES
37	Vol III SCC 2.6.20	Time is the essence of the contract. The total work has to be completed within the time stipulated in the tender document. The bidder shall draw a detailed schedule of programme in the form of a Gantt chart an approved format within one week of date of issue of work order and submit to the Site engineers for their approval	Preparation of an Integrated Gantt Chart for various MODULES from Inception to Completion is required within one (1) WEEK from the date of issue of the WO, as specified in this Sub-Section. What is the Project Management Software Bidder shall use to develop the PROJECT EXECUTION SCHEDULE? Clarify	Bidder shall develop project execution schedule in MS Projects
38	Vol III SCC 2.6.25, Page 7 (Training)	Training should be given to the required staff of the hospital as to how to operate and maintain the system till they get familiar with it.	Does this TRAINING include CLASS ROOM SESSIONS followed by Practical Orientation to Hospital O&M Team? If yes, clarify whether Bidder has to arrange the AUDIO-VISUAL EQUIPMENT & PRESENTATION ROOM to conduct Training Sessions? Does it include TRAINING MATERIALS which had to be printed, bound for distribution to all Attendees? If yes, what is the targeted STRENGTH of O&M Team? What are the MODALITIES for Costing and to include as part of BID? Clarify	Ammend as Vol III SCC 2.6.26, Page 7 (Training) Training should be given to the hospital staff to operate and maintain the system till they get familiar with the system. Training method the vendor can decide.

S.No.	Tender Reference	As per Tender	Bidder Queries	Reply by HITES
39	Vol III SCC Appendix I- Technical Specification 3	Hospital will provide one point electrical supply with isolator and an earth strip in the plant. The internal wiring and earthing, has to be done by the bidder.	In Sub-Sec. 2.4.4 (Electric Power Supply), Page 3 states that Bidder is responsible to arrange for it while in SN 3 in the referenced Paragraph, Client shall provide Electric Power Supply at one designated Location. Clarify what is correct.	In Sub Sec 2.4.4 ,mentioned about the power required for installation and commissioning, while in SN 3 , mentioning about the working power for the MGPS components, one point electrical supply with isolator will be terminated to MGPS room, from there the connections to all components should be done the MGPS vendor.
40	Vol III SCC Appendix I- Technical Specification 13	All Gas Outlets in MOT (i.e. O2, N2O, MA4, MA7, Vacuum, CO2(if required), etc.) will come with OT Pendants(Under MOT Tender) Bidder has to provide pipe lines upto all MOTs (if required)	It has been stated that OT PENDANTS Scope rests with MOT TENDER's successful BIDDER. It states that MGPS Bidder shall install the Pipelines up to the OT PENDANT's Terminal Units. This is once again contradictory to the earlier Statements specified in the above SN's. Clarify what is correct and what is not? SN 15, RANKING FOR ACTUAL CONSUMPTION OF QUANTITIES, Page 9 Clarify what is RANKING and its context and usage.	MOT mentioned in SI.No.6 is modular OT, The OT mentioned in SI. No. 8 is minor OT. The medical gas pipeline installation inside minor OT is Under MGPS vendor Scope.
41	Vol III SCC Appendix I- Responsibility of Consignee (4)	Institute will provide temporary storage for storing of raw materials of MGPS system during installation period and the security of the store is the responsibility of MGPS vendor	It is stated that Client shall provide TEMPORARY STORAGE FACILITY for Security Reasons while earlier in Sub-Section 2.6.11, Page 5 that it is the responsibility of the Bidder to make such arrangements. It is seen that there are repeat Sub-Sections keep appearing with different contradictory statements. This inconsistency is a real cause for confusion. Clarify the item clearly to avoid ambiguities created in the Bidding Document.	The security of the store which provided by the institute for storing MGPS raw materials will be the responsibility of MGPS vendor
42	Vol III SCC Appendix I- Technical Specification 8.3	Painting All the pipes from manifold/plant upto the outlets should be painted with two coats of synthetic enamel paint and colour codification should be as per standards followed and with consultation with competent authorities of the Institute.	It is essential to note the major difference in COLOR CODING CRITERIA for NFPA 99C Standard as opposed to HTM 2022/ HTM 02-01 Part A. In case the existing Hospital Facility is designed for MGPS Lines to NFPA 99C and now for OP BLOCK MGPS Lines included in this Tender is designed to HTM 2022 – HTM 02-01 would create confusion because the Color Coding of Pipes for these Standards are totally different. This confusion would create a big problem for O&M Staff. Therefore, MMI had earlier suggested to resort to the EXISTING MGPS SYSTEM DESIGN CRITERIA so that the new OP BLOCK will be designed for similar Standards avoiding all confusions. Kindly look into this perennial problem which has been intruding in the TECHNICAL SPECIFICATIONS. Clarify the intent for this and take appropriate action and amend changes as deemed appropriate.	Terms & conditions of e-tender prevail
43	Vol III SCC Appendix I- Technical Specification 6	SN 6, MGPS Lines up to/ to OT/ MOT & SN 8, MGPS Lines Inside MOT	These 2 SN's are once again contradictory. What is correct? Is there any reason why such CONTRADICTIONARY STATEMENTS have been specified which are indeed very confusing and may lead to INTERFACE MGMT. ISSUES at Site during Project Execution. Strongly recommend to eliminate all such CONTRADICTIONARY STATEMENTS. Clarify the intent for these issues.	Terms & conditions of e-tender prevail MOT mentioned in SI.No.6 is modular OT. The OT mentioned in SI. No. 8 is minor OT. The medical gas pipeline installation inside minor OT is Under MGPS vendor Scope.
44	Vol III SCC Appendix I- Technical Specification 3	SN 3, ONE POINT ELECTRICAL SUPPLY & ISOLATOR, Page 8	In Sub-Sec. 2.4.4 (Electric Power Supply), Page 3 states that Bidder is responsible to arrange for it while in SN 3 in the referenced Paragraph, Client shall provide Electric Power Supply at one designated Location. Clarify what is correct.	Terms & conditions of e-tender prevail
45			Will the storage of the materials be included in our scope?	The contractor shall be responsible for the storage/safe custody of material supplied at site till successful installation, testing, commissioning and handing over of the entire MGPS to the HITES/Consignee.
46	Vol III SCC Technical Specification 3		A clear cut division of indigenous/imported list is required.	The Bidder may quote indigenous /imported items and submit applicable certificates.
47	Vol III SCC & Appendix I Scope and Technical Specification	Scope and Technical Specification-1 (Oxygen Supply System)		Following is added. 1.5 The bidder shall give provision in manifold room to connect oxygen pipeline to proposed LMO tank (future purpose)
		NOTE: This corrigendum-02 shall form part of this tender. All other terms and conditions of the tender remains unchanged. The bidder submit shall sign and seal all pages of this corrigendum-01 and submit alongwith the e-tender.		
				For HLL Infra Tech Services Ltd
				Authorised Signatory