27-03-2019

Amendment No. 2

Sub: Amendment to the referred tender enquiry

Ref.: Tender Enquiry HITES/PCD/PMSSY-IV/02/MGPS/18-19 dated 14/02/2019

The following changes are being incorporated in the above referred Tender Enquiry Document.

SECTION I
NOTICE INVITING TENDERS (NIT)

The Event Number (Rfx) for Medical Gas Pipeline System for PMSSY Phase-IV up gradation project is 3000003960.

SECTION – II
GENERAL INSTRUCTIONS TO TENDERERS (GIT)

C. PREPARATION OF TENDERS

11. Documents comprising the e-Tender

A) Details of Technical Tender (Un priced Tender)

Bidders shall furnish the following information along with technical tender (in pdf format):

Existing:

xii) Self-Attested copies of VAT registration certificate and PAN Card.

Read as:

xii) Self-Attested copies of GST registration certificate and PAN Card.

19. Earnest Money Deposit (EMD):

Added para :

HITES Bank details for necessary issuance of 'Structured Financial Messaging System (SFMS)' in case the Bid Security (i.e. EMD) is submitted in the form of Bank Guarantee:

Name of the Beneficiary: HLL INFRA TECH SERVICES LTD.
Bank Details: HDFC BANK LTD, NOIDA, UTTAR PRADESH
IFSC Code: HDFC0000088

SECTION - IV
GENERAL CONDITIONS OF CONTRACT (GCC)

GCC Clause 21.1 Payment Terms

i) Existing

A) Payment for domestic goods or goods of foreign origin located within India.

b) Ten (10%) payment of the delivered goods price shall be paid on installation and commissioning upon submission of following document:-

i) Installation and commissioning certificate in original issued by the consignee.

c) On Acceptance:

Balance Twenty (20%) payment of the delivered goods value would be made against 'Final Acceptance Certificate' (FAC) as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. FAC need to be issued by the designated consignee after installation, commissioning, testing and one month of successful trial run of the equipment.

Read as:

A) Payment for domestic goods or goods of foreign origin located within India.

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

b) Twenty (20%) payment of the delivered goods price shall be paid on installation and upon submission of following document:-

i) Installation certificate/ Installation Report duly sealed and signed by the consignee.

c) On Acceptance:

Balance Ten (10%) payment of the delivered goods value would be made against 'Final Acceptance Certificate' (FAC) as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. FAC need to be issued by the designated consignee after installation, commissioning, testing and one month of successful trial run of the equipment.

ii) Existing

A) Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner.

b) Ten (10%) payment of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of the following document:-

i) Installation and commissioning certificate in original issued by the consignee.

c) On Acceptance:

Balance Twenty (20%) payment of the delivered goods value would be made against 'Final Acceptance Certificate' (FAC) as per Section XVIII of goods to be issued by the consignees through

irrevocable, non-transferable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any. FAC need to be issued by the designated consignee after installation, commissioning, testing and one month of successful trial run of the equipment.

Read as:

b) Twenty percent (20%) payment of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of the following document:-

i) Installation certificate/ Installation Report duly sealed and signed by the consignee.

c) On Acceptance:

Balance Ten percent (10%) payment of the delivered goods value would be made against 'Final Acceptance Certificate' (FAC) as per Section XVIII of goods to be issued by the consignees through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any. FAC need to be issued by the designated consignee after installation, commissioning, testing and one month of successful trial run of the equipment.

Section VII
Technical Specification

Tender Page No. & Para	TENDER SPECIFICATION	READ AS
Pg 47	**RESPONSIBILITY OF BIDDER**	
Pg 47, 48 Para 16	The following systems/Items must be from the same principal company/Manufacturer 1. Control Panels & Manifold for O2, N2O & CO2 2. Medical Air Plant 3. Medical Vacuum Plant 4. AGSS Plant 5. Area & Master Alarm 6. All types Outlets 7. Oxygen flowmeter 8.AVSU 9.Line Isolation Valves 10. High Pressure Tubes	The following systems/Items must be from the same principal company/Manufacturer: 1 Control Panels & Manifold for O2, N2O & CO2 2 Medical Air Plant 3 Medical Vacuum Plant 4 AGSS Plant 5 Area & Master Alarm 6 All types Outlets 7 **Deleted** 8 AVSU 9 Line Isolation Valves 10 High Pressure Tubes

Tender Page No. & Para	TENDER SPECIFICATION	READ AS
Pg 48 Para 20	Bidder should be responsible for suitable arrangement of heat dissipation and Air-Conditioning as per offered MGPS plant requirement/recommendations from the Manufacturer and as per local site condition. Bidder should also take care of backup arrangement for AC and Exhausts as the MGPS Plant may run 24x7 as per the requirement.	Bidder should be responsible for suitable arrangement of heat dissipation and Air-Conditioning as per offered MGPS plant requirement / recommendations from the Manufacturer and as per local site condition. Bidder should also take care of backup arrangement for AC and Exhausts as the MGPS Plant may run 24x7 as per the requirement. **Minimum 20TR AC (ductable with exhausts) will be considered for ranking purpose and price to be quoted separately.**
Pg 48	**Responsibility of Consignee/ EA:**	
Pg 49 Para 8	Institute will provide power & Data input(if required) at all Bed Head Panel Locations at the hieght of 1250mm from FFL as per approved plan of consignee.	Institute will provide **electrical** power & Data input at all Bed Head Panel Locations at the hieght of 1250mm (**centre of the BHP**) from FFL as per approved plan of consignee.
Pg 49 Para 1.1	**Fully Automatic Oxygen Control Panel**	
	The manifold assembly should provide two stages of pressure regulation. A single stage primary regulator, one for each cylinder bank should be used to initially reduce cylinder pressure and two single stage pressure regulators should be provided in the control cabinet for final delivery pressure regulation. One delivery pressure regulator in service and one should be ready for service in a standby mode.The Manifold control panel should be with digital display, fully automatic type and switches from “Bank in Use” to “Reserve bank “ without fluctuation in delivery supply line pressure. Changeover should be performed by electrically/pneumatically operated valves contained in the control cabinet. In the event of an electrical power failure the valves should automatically open to provide an uninterrupted gas flow. It should be 100% automatic and should not require manual adjustment.	The manifold assembly should provide two stages of pressure regulation. A single stage primary regulator, one for each cylinder bank should be used to initially reduce cylinder pressure and two single stage pressure regulators should be provided in the control cabinet for final delivery pressure regulation. One delivery pressure regulator in service and one should be ready for service in a standby mode.The Manifold control panel should be with digital display, fully automatic type and switches from “Bank in Use” to “Reserve bank “ without fluctuation in delivery supply line pressure. Changeover should be performed by electrically/pneumatically operated valves contained in the control cabinet. In the event of an electrical power failure **(incase of electronically operated)** the valves should automatically open to provide an uninterrupted gas flow. It should be 100% automatic and should not require manual adjustment.
Pg 49 Para 1.2	**Oxygen Manifold Supply System (without Cylinders)**	

Tender Page No. & Para	TENDER SPECIFICATION	READ AS
	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.	Each header bar assembly shall be provided with a high pressure shut off valve. Oxygen Manifold should consist of respective numbers of class D-type bulk oxygen cylinders. The manifold should be hydraulically tested to atleast **3000 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.
Pg 49 Para 1.3	**Emergency Oxygen Manifold (without Cylinders)**	
	Manifold shall consist of two high pressure header bar assemblies to facilitate connection of respective numbers 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.	Manifold shall consist of high pressure header bar assemblies to facilitate connection of respective numbers of cylinder supplies. 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. Header bar assembly shall be provided with a high pressure shut off valve.
Pg 49, 50	Oxygen Manifold should consist of 2/1 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.	Oxygen Manifold should consist of 2/1 rows of respective numbers of class D-type bulk oxygen cylinders. The manifold should be hydraulically tested to **atleast 3000 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.
Pg 50 Para 1.4 I)	**Oxygen Flow meter with Humidifier Bottle**	
I)	Should be BIS/CE certified/ UL Listed	Should be BIS/**European CE certified with 4 digit notified body no/ UL Listed/US FDA/ETL listed**
Pg 50 Para 2.1	**Fully Automatic Nitrous Oxide Control Panel**	

Tender Page No. & Para	TENDER SPECIFICATION	READ AS
	The manifold assembly should provide two stages of pressure regulation. A single stage primary regulator, one for each cylinder bank should be used to initially reduce cylinder pressure and two single stage pressure regulators should be provided in the control cabinet for final delivery pressure regulation. One delivery pressure regulator in service and one should be ready for service in a Standby mode. The Manifold control panel should be digital, fully automatic type and switches from "Bank in Use" to "Reserve bank " without fluctuation in delivery supply line pressure.Changeover should be performed by electrically/pneumatically operated valves contained in the control cabinet. In the event of an electrical power failure the valves should automatically open to provide an uninterrupted gas flow. The manifold should not require any manual resetting or adjustments after the replacements of the depleted cylinders.	The manifold assembly should provide two stages of pressure regulation. A single stage primary regulator, one for each cylinder bank should be used to initially reduce cylinder pressure and two single stage pressure regulators should be provided in the control cabinet for final delivery pressure regulation. One delivery pressure regulator in service and one should be ready for service in a Standby mode. The Manifold control panel should be digital, fully automatic type and switches from "Bank in Use" to "Reserve bank " without fluctuation in delivery supply line Pressure. Changeover should be performed by electrically/ pneumatically operated valves contained in the control cabinet. In the event of an electrical power failure **(incase of electrically operated)** the valves should automatically open to provide an uninterrupted gas flow. The manifold should not require any manual resetting or adjustments after the replacements of the depleted cylinders.
Pg 50 Para 2.2	**Nitrous Oxide Manifold (Without 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 number of cylinder pigtail connections to suit cylinder valves as perIS.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. 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 cylinder should be locked with the help of cylinder brackets and fixing chains which should be galvanized.	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 number of cylinder pigtail connections to suit cylinder valves as perIS.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. The manifold should be hydraulically tested to **atleast 3000 psig.** The manifold should be so designed that it shall suit easy cylinder changing and positioning. The cylinder should be locked with the help of cylinder brackets and fixing chains which should be galvanized.
Pg 50 Para 2.3	**Emergency N2O Manifold (Without Cylinders)**	

Tender Page No. & Para	TENDER SPECIFICATION	READ AS
Pg 51	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. Nitrous oxide manifold should consist of 2 rows of respective numbers of cylinders.	Manifold shall consist of high-pressure header bar assemblies to facilitate connection of cylinder supplies. 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. Header bar assembly shall be provided with a high pressure shut off valve. Nitrous oxide manifold should consist of respective numbers of cylinders
Pg 51	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.	The manifold should be hydraulically tested to **atleast 3000 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.
Pg 51 Para 3	**Medical and Surgical Air System (Package Unit) - Tolerance of +/-5% is acceptable on plant flow capacity**	
Pg 51 Para 3.1	**Air Compressor Modules**	
	Padlocks available to allow locking of the valves in both open and closed positions and must have easy to read pressure gauges. Base plate mounted and supplied with copper stub pipes for ease of installation using inert jointing procedures.	Padlocks **(if applicable to standards)** available to allow locking of the valves in both open and closed positions and must have easy to read pressure gauges. Base plate mounted and supplied with copper stub pipes for ease of installation using inert jointing procedures.
Pg 52 Para 4	**VACUUM SYSTEMS (Package unit)**	**VACUUM SYSTEMS (Package unit) - Tolerence of +/-5% is acceptable in plant flow capacity**
Pg 53 Para 4.3	**System Controls**	

Tender Page No. & Para	TENDER SPECIFICATION	READ AS
	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, pressure sensors, temperature switches with reset buttons, and an electronic controller to automatically change the operating sequence of the compressors. The system should have a status display to show the system pressure, elapsed time, maintenance interval, fault conditions, and silence button, lighted Hand-Off-Automatic selector switches and safety disconnect operating handles.	The control include individual self-protected combination motor controls with short circuit, single phase and thermal overload protection, individual control circuit transformers with primary and secondary protection, pressure sensors, temperature switches with reset buttons, and an electronic controller to automatically change the operating sequence of the compressors. The system should have a status display to show the system pressure, elapsed time, maintenance interval, fault conditions, and silence button, lighted Hand-Off-Automatic selector switches and safety disconnect operating handles.
Pg 53 Para 5	**Ward Vacuum Units**	
Pg 53 Para 5A	Low flow ward vacuum unit - Should have vacuum levels: 0-250 mm of Hg +/-10%	Low flow ward vacuum unit - Should have vacuum levels: **0-150 mm of Hg +/-10%**
Pg 55 Para 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.	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 **prefitted ball valve** in a box with emergency access. It should be reliable and easy to operate, easy purge, sample & pressure testing and emergency supply system. **Quantity of valves is considered under BOQ heading line isolation vales.**
	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.	The box shall be made from extruded aluminium**/MS powder coated** 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.
Pg 56 Para 11.1	**Master Alarm (Digital)**	
	Bidder shall be responsible for all cabling from local alarm panels to master alarm panel .	Bidder shall be responsible for all cabling from local alarm panels(**OTS & ICUs**) to master alarm panel

Tender Page No. & Para	TENDER SPECIFICATION	READ AS
Pg 56 Para 15	**Horizontal/ Vertical Bed Head Panel**	
	Segregation of services i.e. Low voltage supplies, High Voltage supply and Medical gases should be maintained with minimum 2 tier/2 channel arrangements.	Segregation of services i.e. Low voltage supplies, High Voltage supply and Medical gases should be maintained with minimum **3 tier/3 channel** arrangements **with built-in LED Lighting/flexible light (with ON/OFF control)**
	Each bed-head unit shall be supplied with electrical and electrical outlets pre-fitted, wired and certified. (Wired up to the distribution box provided with leakage protection & proper earthling arrangements)	Each bed-head unit shall be supplied with electrical and electrical outlets pre-fitted, wired and certified.
	Infusion pump mount pole with adapter for mounting at least two infusion pumps	Deleted
	Monitor Bracket	Deleted
		BOQ
		Added para : 20TR AC for plant room - 1 no (price to be quoted separately)

***The format for BANK GUARANTEE FORM FOR EMD has been revised as below.**

SECTION – XIII
BANK GUARANTEE FORM FOR EMD

Whereas _____ (hereinafter called the "Tenderer") has submitted its quotation dated _____ for the supply of _____ (hereinafter called the "tender") against the purchaser's tender enquiry no. _____ Know all persons by these presents that we _____ of _____ (Hereinafter called the "Bank") having our registered office at _____ are bound unto _____ (hereinafter called the "Purchaser) in the sum of _____ for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____day of _____ 20____. The conditions of this obligation are:

1) If the Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
2) If the Tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-

   fails or refuses to furnish the performance security for the due performance of the contract or
   fails or refuses to accept/execute the contract or
   if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition(s).

This guarantee will remain in force for a period of forty-five days after the period of tender validity and any demand in respect thereof should reach the bank not later than the above date.

…….
(Signature with date of the authorised officer of the Bank)
…….
Name and designation of the officer
…….
…….
Seal, name & address of the Bank and address of the Branch

All other contents of the tender enquiry including terms & conditions remain unaltered.

Note:

i. **Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**