HSCC (India) Limited

AMENDMENT-XI

Subject: Tender for "Execution including Design, Supply, Installation, Testing & Commissioning of Special services (SES) Works at 100 bedded Hospital at ESIC Siliguri-West Bengal".

Tender No: HSCC/SES/ESIC/SILIGURI/WEST BENGAL/2024/65 Date:21.08.2024

With reference to the above cited subject work, the following Amendment may be noted, which shall be treated as a part of the contract to be uploaded along with tender/ bid:

The validity of Bid Security/ Earnest Money Deposit (EMD) to be submitted by the bidders with their bid in the form of Bank Guarantee (BG) shall be considered from the original due date of bid submission i.e., from 05.09.2024.

1. <u>Reply to Technical Queries raised by bidder.</u>

Sr. No.	Vol./ Cl.No. /	Bidder Queries / request	HSCC Reply / to be amended
	Ref.		
	Tech. Specs Vol	As per BOQ	Configuration may be read as $12 + 12$ size of oxygen
1.	4 and BOQ Vol 5	12 + 12 size of oxygen manifold complete with middle frame,	manifold complete with middle frame, chains NRVs
		chains NRVs and 24 nos pig tail pipes.	and 24 nos pig tail pipes along with all accessories as per technical specification
		As per Technical Specification	
		2 x 10 Nos Oxygen Cylinder Manifold	
		Clarification Required	
		Please clarify while bidding the tender, what configuration needs to be followed.	

2.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ 04 + 04 size of oxygen emergency cylinder Manifold complete with middle frame chain and NRVs and fully automatic control panel for oxygen As per technical specification Specification given, size states: 2 x 10 Nos. Oxygen Cylinder Manifold Clarification Required Please clarify while bidding the tender, what configuration needs to be followed.	Configuration may be read as 04 + 04 size of oxygen emergency cylinder Manifold complete with middle frame chain and NRVs and fully automatic control panel for oxygen along with all accessories as per technical specification.
3.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Oxygen Outlet as per HTM 2022 (Imported) As per technical specification Double Lock Outlet Clarification Required As per specification product is indigenous, however BOQ states imported.	As per technical specification.
4.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Oxygen H.P. antistatic rubber tube (Imported) As per technical Specification LP tubing Clarification required BOQ says imported HP tubing however specification states indigenous LP Tubing. Pl clarify.	As per technical specification.
5.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ 04 + 04 size of N2O manifold complete with middle frame chains NRVs 6 nos. pig tail pipes. No technical specification provided. Please clarify , how to submit technical compliance.	Nitrous Oxide Manifold (Without Cylinders) The size of Manifolds should be as mentioned in BOQ 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 number of cylinder pigtail connections to suit cylinder valves as perIS.3224/ BS/ ASME incorporating a check valve at the header connection. The high-pressure header bar shall be designed in such a manner that it can be extended to facilitate additional cylinder connections. 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.
6.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ 2 cylinders size of N2O emergency cylinders manifold complete with middle frame chains NRVs. No technical Specification provided. Please clarify , how to submit technical compliance.	Emergency N2O Manifold (Without Cylinders) The size of Manifolds should be as mentioned in BOQ 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. The high-pressure header bar shall be designed in such a manner that it can be extended to facilitate additional cylinder connections. 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. 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.

7	Tech Spece Vol	As per BOO	
/.	4 and BOO Vol 5	Fully automatic pneumatically operated N2O control panel	Fully Automatic Nitrous Oxide Control Panel
		with heater (imported)	Tuny Automatic Milous Oxide Control Faller
		No Technical Specification provided	The Nitrous Oxide Control Panel shall be of
			microprocessor based and preferably Digital Display
			Type. Pressure reduction shall be in two stages. Panel
			shall be integrated with pressure gauges inside panel
			on downstream of pressure regulator. Panel shall be
			fitted with standby line regulator. Line regulators
			shall have pressure relief mechanism for testing and
			servicing purpose.
			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
			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/
			Analogue 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.
			All tunctional components should be enclosed on fire
			resistant, robust synthetic polymer/SS.
			The Control Panel shall include two pressure relief
			valves, one high pressure approx.200psi and one low
			The control panel should also have heaters to provent
			ice formation on the regulators at high flow rates
			The Control Panel should be made to provide Heavy
			Duty and have a flow capacity of 500 LPM or more at

			50 to 60 psi. The Automatic Control Panel should be installed in such a way to meet the peak flow requirement of the Hospital/Institute .Control panel should have Alarm reset switch/Mute /acknowledgement switch to control and monitor the alarm indications by the operator.
8.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Nitrous Oxide Outlet as per HTM 2022 (Imported) As per technical Specification Double Lock outlet As per specification product is indigenous , however BOQ states Imported. Pl clarify	As per technical specification.
9.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Nitrous Oxide H.P. antistatic rubber tube (Imported) As per technical specification LP tubing BOQ says imported HP Tubing, however specification states indigenous LP tubing. Pl clarify.	As per technical specification
10.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Compressed air system complete with oil free air compressor (2 nos. x 57.18 cfm) equipped with air receiver capacity of 2000 Ltrs and complete with air dryer of 60 cfm As per technical specification Medical Compressed air system comprising of compressors 36 CFM (Min. 10 HP Compressor) capacity at 8.5-10 kg/sqcm mounted with 2000 litres receiver tank. Pl clarify	Capacity may be read as Compressed air system complete with oil free air compressor (2 nos. x 57.18 cfm) equipped with air receiver capacity of 2000 Ltrs and complete with air dryer of 60 cfm along with all accessories as per technical specification
11.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Medical Air -4 bar Outlet as per HTM 2022 (Imported) As per technical specification Double Lock outlet As per specifications, product is Indigenous, however BOQ states imported.	As per technical specification.
12.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Surgical Air -7 bar Outlet as per HTM 2022 (Imported) As per technical specification Double Lock outlet As per specifications, product is Indigenous, however BOQ states imported.	As per technical specification.

13.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Compressed air HP antistatic rubber tube (imported) As per technical specification LP tubing BOQ says imported HP Tubing, however specification states indigenous LP tubing. Pl clarify.	As per technical specification.
14.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Vacuum Central System complete with vacuum pumps (2 Nos. x 7V) reciprocating base frame mounted with motor and 2000 ltrs capacity vacuum reservoir. As per technical specification Vacuum Pumps of 36 CFM (Min. 10 HP) capacity with 2000 litres receiver tank, filter, Non –return valve, Isolation valves, Auto switch gear to set minimum & maximum operating vacuum and interconnecting piping.Pl clarify	Capacity of Vacuum pump of Vacuum Central System may be read as complete with vacuum pumps (2 Nos. x 7V) reciprocating base frame mounted with motor and 2000 ltrs capacity vacuum reservoir along with all accessories as per technical specification.
15.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Vacuum Outlet as per HTM 2022 (Imported) As per technical specification Double Lock Outlet As per specifications, product is Indigenous, however BOQ states imported.	As per technical specification.
16.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Vacuum HP antistatic rubber tube (imported) As per technical specification LP tubing BOQ says imported HP Tubing, however specification states indigenous LP tubing. Pl clarify.	As per technical specification.
17.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ Theatre vacuum unit complete with regulator collection bottle and adopter and trolley No technical specifications are provided. Pl clarify.	 Theatre Vacuum unit for OT It must consist of the following: - 1. 1no. Suction Regulator and 2nos. 1700ml or more polysulfone/ polycarbonate collection jar and both to be mounted on a trolley. 2. Suction Regulator: Suction regulator should be supplied with a safety jar, including an anti-bacterial filter and an anti-overflow safety device. Should have wide membrane continuous suction controller

			 Should have vacuum levels : 0-760 mm of Hg Should have vacuum gauge fitted with a protective bumper device. Should have on/off knob allowing for the quick restoration of a readjusted vacuum level. Must have central adjustment knob with a color coded for 0-760 mm of Hg. Should have polysulfone/polycarbonate safety jar, autoclavable at 121° C, unbreakable, fitted with an anti-overflow safety device and equipped with a plastic antibacterial filter. Collection jar should be totally transparent, to ensure perfect sucked liquid visibility.
18.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ AGSS system consisting of Duplex Skid mounted AGS pumps with remote switches –AGSS simplex start switch (as per 2022) No technical specifications provided.	AGSS (Anesthetic Gas Scavenging System) Plant Duplex Anesthetic Gas Scavenging System (AGSS) of minimum 1000LPM, should be BIS/ European CE Certified or UL listed. It shall confirm to HTM 02-01/ NFPA 99 C/EN/DIN/ISO 7396-1. One pump working and one stand by and vice versa. The package should consist of two rotary vane vacuum pumps, a control panel, and mounted on a common base frame. AGSS pump: AGSS pump shall operate completely dry permanently lubricated and sealed. Each pump should be completely air cooled and have absolutely no water requirements. Duplex system in-line non-return values should allow individual pump servicing. Active anesthetic gas scavenging systems should be designed to safely remove exhaled anesthetic agents from the operating environment and dispose of them to atmosphere from the highest point of the hospital building, thus preventing contamination of the operating department and providing a safe and healthy workspace for the personal. AGSS design should be dependent upon flow rate and pressure drop characteristics of the individual components of systems. It is essential that terminal units, remote controls (If required) and pump units work in synchronized manner after connection of workstation

1	9.	Tech. Specs Vol 4 and BOQ Vol 5	As per BOQ AGSS Outlet as per HTM 2022 (Imported) As per technical specification Double Lock Outlet As per specifications, product is Indigenous, however BOQ states imported.	to the AGSS System. Installation should be on roof top/suitable location. Piping, Non-Return-Valves (NRVs), and inlet nozzle should be suitably placed. Connecting hose suitable to fit with anesthesia workstation should be provided. As per specification.
2	0.	Tech. Specs Vol 4 and BOQ Vol 5	Master Alarm No technical specifications are given Pl clarify	ALARM SYSTEM Master Alarm Should be BIS/ European CE Certified or UL listed under Medical Devices Directive. 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 EMC 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 Other MGPS Signals & Alarms Bidder shall be responsible for all cabling from local alarm panels to master alarm panel.
	Laundry Equipm	ent	<u> </u>
21.	Tech. Specs Vol 4 and BOQ Vol 5	Washer Extractor 60 Kg mentioned in technical specification. Not given in BOQ	Deleted
22.	Tech. Specs Vol 4 and BOQ Vol 5	Sluicing cum Washer Extractor mentioned in technical specification. Not in BOQ	Deleted
23.	Tech. Specs Vol 4 and BOQ Vol 5	Flat Bed press mentioned in technical specification. Not in BOQ	Deleted
24.	Tech. Specs Vol 4 and BOQ Vol 5	Storage rack mentioned in technical specification. Not in BOQ	Deleted
25.	Tech. Specs Vol 4 and BOQ Vol 5	Laundry scrub station with 2 sink mentioned in technical specification and not in BOQ	Deleted
26.	Tech. Specs Vol 4 and BOQ Vol 5	Mending machine mentioned in technical specification and not in BOQ	Deleted
27.	Tech. Specs Vol 4 and BOQ Vol 5	Flat work Ironer given in BOQ and not in technical specification	 FLATWORK IRONER CHEST HEATED (Calendaring m/c) Suitable for rapid ironing of linen like Bed sheets, Pillow cover or flat sheet etc Roller Size-380 Ø mm x 3000 mm length, Electrically heated Front feed and Front Return Type, Variable Speed Control Powder coated outer body

		A	(-
	р	Auto timed and Au	to temperature control
	Ko	Her - Made o	or Stainless steel AISI-304.
	Ma	achined with perforat	tions through out the
	len	igth and periphery fo	r moisture suction. Roller
	sho	ould run on self align	ing ball bearings.
	0	No. of Pollars	1 (One) needed with beauty
	а.	duty heat resistant	1 (One). padded with heavy
		duty heat resistant	Numay/Polyostar
	h	Ironing Chest-	Sliding type Grinded
	υ.	smoothly Polished	Chest should move back and
		forth	Chest should move back and
			through pneumatic cylinders
		at both sides. Adjus	stable and uniform ironing
			pressure should be across the
	0	Drivo	Hoovy duty chain drive with
	C.	Drive -	Heavy duty chain drive with
		spring loaded adjus	stable sprockets
		Box Motor	and equipped with Geared
	d.	Drive Motor-	1.5 Kw (Approx.)
	e.	Suction Motor-	0.37 Kw (Approx.)
	f.	Control -	Digital control with variable
		speed of Roller thro	ough VFD
	ø.	Roller Speed -	2-6 m/min
	h.	Main body -	Made of steel sheet of 1.5 mm
		thickness with pow	der coating
	i.	Safety -	Start and stop of the machine
		with emergency sw	vitch Automatic
		stopping of the ma	achine for Finger guard
	į.	Padding -	Galvanized coil type/leaf type
	5	springs should be c	overed with heat resistant
		double layer Polyes	ster Padding of minimum 900
		GSM	
	k.	Heating load- By early and the second	asily replaceable heaters with
		thermostat. Heating	gelements
		should be oriented	in the Roller in a manner for
		good dissipation of	heat

28	Tech Specs Vol	As per BOO Steam Boiler -200 Kg with Water Softener	 Top cover -Made of Stainless steel for stacking pressed articles M. All wet materials and components must be of AISI-304 Stainless steel All Stainless-steel components should be TIG welded and highly polished. In-built Control Panel and Motor
20.	4 and BOQ Vol 5	As per technical specification steam generation 8Kg/hr	As per technical specification.
	Modular OI		
29.	Tech. Specs Vol 4 and BOQ Vol 5	Door and Frames (Automatically Hermetically Sealed Sliding Door) As per technical Specification The top layer on both sides is high pressure laminates of size 6 mm It is requested to amend the top layer on both sides is high pressure laminate of size 4 mm as reputed manufacturer of doors has thickness of HPL available is 4 mm instead of 6 mm.	Door and Frames (Automatically Hermetically Sealed Sliding Door) Top layer on both sides is high pressure laminate of size 4 mm
30.	Tech. Specs Vol 4 and BOQ Vol 5	Surgeon Control Panel Temperature and Humidity Indicator with Controller It is requested to read it as Temperature and Humidity Indicator with controller (0-10 V)	Surgeon Control Panel Temperature and Humidity Indicator with Controller (0-10 V)
31.	Tech. Specs Vol 4 and BOQ Vol 5	Adjustable Movable Boom Arm System (Imported)As per technical SpecificationThe arms should be easy to move and each should come withPneumatic brakes as a standard option to support a locked position.It is requested that The arms should be easy to move and each should come with Pneumatic/electromagnetic brakes as a standard option to support a locked position.	Adjustable Movable Boom Arm System (Imported) The arms should be easy to move and each should come with Pneumatic/electromagnetic brakes as a standard option to support a locked position.
32.	Tech. Specs Vol 4 and BOQ Vol 5	 Adjustable Movable Boom Arm System (Imported) As per technical Specification Should have atleast 3 shelves of minimum 750 mm size. It is requested that it should have atleast 3 shelves of minimum 500mm -750 mm size. 	Adjustable Movable Boom Arm System (Imported) it should have at least 3 shelves of minimum 500mm - 750 mm size.

33.	Tech. Specs Vol 4 and BOO Vol 5	Anesthesia Boom System	Anesthesia Boom System
		The arms may be fitted with pneumatic brakes to prevent inadvertent movement.	The arms may be fitted with pneumatic/ electromagnetic brakes to prevent inadvertent movement.
		It is requested the arms may be fitted with pneumatic/	
		electromagnetic brakes to prevent inadvertent movement.	
34.	Tech. Specs Vol	Hatch Box	Hatch Box size should be min. 600 mm x 600 mm.
	4 and BOQ Vol 5		
		As per BOQ	
		Hatch Box – 600 x 1200 mm	
		As per technical specification Hatch box – 600 x600	
		As a standard practice size of Hatch Box provided for OT is	
		600 x 600 approx.	
35.	Tech. Specs Vol	View Window	View Window
	4 and BOQ Vol 5	As per technical specification	The window blinds should be operated with remote
		The window blinds should be operated with remote control and	control/manually.
		manually.	
		It is requested that the window blinds should be operated with	
		remote control/manually	

All other terms & Conditions of the Tender shall remain unchanged.

The above amendment shall be treated as integral part of the tender document and to be submitted duly signed & stamp along with tender/bid.

Prospective bidders are advised to regularly visit through HSCC e-tender portal **https://hscc.enivida.com** & HSCC website <u>http://www.hsccltd.co.in</u> as corrigendum/amendments etc., if any, will be notified on this portal only and separate advertisement will not be made for this.

(- Sd -) General Manager (Procurement) HSCC (India) Ltd.