

HSCC/SES/MGMS/2018

Dated: 27.03.2018

All Bidders

Amendment -III

Subject: Supply , Installation, Testing & Commissioning of Medical Gas Manifold System at Indian Institute of Technology (IIT), Kharagpur.

IFB No. : HSCC/SES/MGMS/IIT-Kharagpur/2018 dated 20.02.2018

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.

The revised BOQ is attached. Bidders should quote the revised BOQ.

The bid submission date is extended from 27.03.2018 to 02.04.2018 and bid security should be valid for 180 days from the date of original bid submission ie. from 16.03.2018.

All other terms & conditions remain unchanged.

Chief General Manager, HSCC (I) Ltd.
For and behalf of Director, IIT, Kharagpur

**INDIAN INSTITUTE OF TECHNOLOGY (IIT),
KHARAGPUR**

e- Tender

for

**Supply Installation Testing & Commissioning of Medical
Gas Manifold System for INDIAN INSTITUTE OF
TECHNOLOGY (IIT), KHARAGPUR**

VOLUME – V

Bill of Quantities (BOQ)

February 2018



(Consultants & Engineers for Mega Hospitals & Laboratories)
E - 6 (A), Sector - I, NOIDA (U.P.) - 201 301 (INDIA)

PHONE : 0120-2542436, 2542437 FAX : 0120-2542447
E- mail : www.hsccltd.co.in

Tender No. HSCC/SES/MGMS/IIT- KHARAGPUR/2018

BOQ OF MEDICAL GAS MANIFOLD SYSTEM FOR IIT KHARAGPUR

Name of Bidder M/s

Part-I -Plan. Design, Supply, installation, testing and commissioning on turnkey basis						
Sl.No.	Description of items	QTY	Unit	Unit Rate in Rs.	Rate in Rupees in Words	Amount in Rs.
1.1	Fully Automatic Oxygen Control System : Supply, Installation testing and commissioning of Fully Automatic Oxygen Control System. <i>As per specification.</i>	1	Nos			0.00
1.2	Oxygen Manifold (2x20) : Supply, Installation, testing and commissioning of (2x16 size) class D cylinder Oxygen Supply System. <i>As per specification.</i>	1	Nos			0.00
1.3	Emergency Oxygen Supply System : Supply, Installation, testing and commissioning of (2x5 size) class D cylinder Emergency Oxygen Supply System. <i>As per specification.</i>	1	Nos			0.00
1.4	Oxygen Flow meter with Humidifier Bottle: Supply, installation, testing and commissioning of oxygen flow meter with humidifier bottle 0-15litres. <i>As per specification.</i>	571	Nos			0.00
2.1	Fully Automatic Manifold Control Panel for Nitrous Oxide: Supply, installation testing and commission of fully automatic control panel for Nitrous Oxide. <i>As per specification.</i>	1	Nos			0.00
2.2	Nitrous Oxide Manifold System, (2x5 size): Supply, installation, testing and commissioning of (2x5 size) Nitrous Oxide Manifold system. <i>As per specification.</i>	1	Nos			0.00
2.3	Emergency Nitrous Oxide Manifold System, 2x2 size: Supply, installation, testing and commissioning of (2x2 size) cylinder Emergency Nitrous Oxide supply System. <i>As per specification.</i>	1	Nos			0.00
3.0	Medical Air Plant (Package Unit) including electrical control panel: Supply, Installation, testing and commissioning medical air plant having a minimum capacity of 5000 LPM with necessary standby as per relevant standard <i>as per specification.</i>	1	Nos			0.00
4.0	Medical Vacuum Plant (Package unit): Supply, Installation, testing and commissioning of Rotary Vane type medical vacuum plant having a minimum system capacity of 6230 PM with necessary standby as per relevant standard as per specification	1	Nos			0.00
5.0	Ward Vacuum Unit: Supply, installation, testing and commissioning of Ward Vacuum Unit <i>as per tender technical specifications.</i>	529	Nos			0.00
6.0	Theater Vacuum Unit for Operation Theaters: Supply, installation, testing and commissioning of Theater Vacuum Unit <i>as per tender technical specifications.</i>	42	Nos			0.00
7.0	Duplex AGSS System: Supply installation and commissioning of Duplex AGSS system. <i>As per specification.</i>	1	Nos			0.00
8.0	Copper Pipes <i>As per tender technical specifications</i>					
	i 76mm OD X 1.2mm thick	175	mtr			0.00
	ii 54mm OD X 1.2mm thick	300	mtr			0.00
	iii 42mm OD X 1.2mm thick	225	mtr			0.00
	iv 35mm OD X 1.2mm thick	875	mtr			0.00
	v 28mm OD X 1 mm thick	925	mtr			0.00
	vi 22mm OD X 1 mm thick	4050	mtr			0.00
	vii 15mm OD X 1 mm thick	3800	mtr			0.00
	viii 12mm OD X 1 mm thick	1750	mtr			0.00
9.0	Gas Outlet Points/ Terminal Units with probe: Supply, Installation, testing and commissioning of Gas outlet points for Oxygen, Nitrous Oxide, Medical Air 4 Bar, Vacuum, CO2 and AGSS					
	i Oxygen outlet with probe (MOT outlets are in the MOT Package)	535	Nos			0.00
	ii Nitrous Oxide outlet with probe (MOT outlets are in the MOT Package)	4	Nos			0.00
	iii Medical Air 4 outlet with probe (MOT outlets are in the MOT Package)	176	Nos			0.00
	iv Vacuum outlet with probe (MOT outlets are in the MOT Package)	535	Nos			0.00
	v Medical Air 7 outlet with probe (MOT outlets are in the MOT Package)	2	Nos			0.00
	vi AGSS outlet with probe (MOT outlets are in the MOT Package)	7	Nos			0.00
	vii Carbondioxide outlet with probe (MOT outlets are in the MOT Package)	1	Nos			0.00
10.0	AREA VALVE BOX : Supply, Installation, testing and commissioning of Area Valve Boxes. <i>as per specification.</i>					
	Valve Box - 2 Gas Service with NIST Connection	6	Nos			0.00
	Valve Box - 3 Gas Service with NIST Connection	24	Nos			0.00
	Valve Box - 6 Gas Service with NIST Connection	15	Nos			0.00
11.0	MEDICAL GAS ALARM PANEL : Supply, Installation, testing and commissioning of Medical Gas Alarm Panel <i>as per specification.</i>					
	Medical Gas Area Alarm for 2 services (Oxygen and MA4 bar)	6	Nos			0.00
	Medical Gas Area Alarm for 3 services (Oxygen, MA4 bar and Vacuum)	24	Nos			0.00
	Medical Gas Area Alarm 6 services (Oxygen, N2O, MA4 bar , SA7 bar N2O and Vacuum)	15	Nos			0.00
	Master Alarm Panel	1	Nos			0.00
12.0	LINE ISOLATION VALVES					
	15 mm ball valve	50	Nos			0.00
	22 mm ball valve	50	Nos			0.00
	28 mm ball valve	15	Nos			0.00
	35 mm ball valve	35	Nos			0.00
	42 mm ball valve	25	Nos			0.00
	54 mm ball valve	2	Nos			0.00
	76 mm ball valve	1	Nos			0.00
13.0	Supply of O2 cylinders-Class D cylinders	60	Nos			0.00
14.0	Supply of N2O cylinders-Class D cylinders	20	Nos			0.00
15.0	Supply of CO2 cylinders-Class D cylinders	10	Nos			0.00
16.0	Bed Head Horizontal/ vertical Wall Panel (Without outlets) <i>as per specification.</i>	170	Nos			0.00
17.0	Supply installation testing and commissioning of Medical gas hose assemblies <i>as per standard followed.</i>	500	mtr			0.00
18.0	Electric wiring inside the gas manifold and plant room including electrical panel for plant & Manifold rooms	1	Nos			0.00

19.0	CO2 Manifold 2 + 2 Primary & 1+1 Standby Cylinders with Automatic control panels per specs	1	Nos			0.00
20.0	Turnkey works as per Specification	1	Nos			0.00
21.0	Operation during one year DLP	1	job			0.00
					SUB TOTAL Rs.	0.00
	The bidders are required to quote rates for Comprehensive Maintenance Contract (CMC) for the years compulsorily for evaluation purpose. However the client reserve the right to award or not to award the work at latter stage. The contractor has no claim in this regard. This is to be noted that the rates quoted for these items under Comprehensive Maintenance Contract shall be part of evaluation of the financial bid.					
	Part-II					
1	Operation and Comprehensive Maintenance Charges for the complete Medical Gas Manifold System including spares, repair or replacement of defective equipments/parts, tools, tackles, accessories, consumables, labour charges etc. complete in all respect as per the contract after DLP					
	1st Year	1	Job			0.00
	2nd Year	1	Job			0.00
	3rd Year	1	Job			0.00
	4th Year	1	Job			0.00
	5th Year	1	Job			0.00
					SUB TOTAL Rs.	0.00
	SUMMARY OF RATES QUOTED					
	TOTAL (PART-I)			0.00		0.00
	TOTAL (PART-II)			0.00		0.00
	Grand Total Amount (PART - I + PART - II) (in Figures) :-					0.00
	Grand Total in Words: Rupees					