

DELHI CANTONMENT BOARD

**CANTONMENT GENERAL HOSPITAL
DELHI CANTT-10**

Tender

for

**Supply, Installation, Testing & Commissioning of Medical Gas Pipe Line
(Manifold) System at Cantonment General Hospital, Delhi Cantt.**

VOLUME – III

BOQ

2014

Tender No. DCB/H/TN/MGMS/29/2014

VOLUME -III						
BILL OF QUANTITIES						
Supply Installation, testing and commissioning of Medical Gas Pipe Line (Manifold) System with One year Defect Liability period.						
Item No.1	Description 2	Unit 3	Qty 4	Rate In Rs (in Figure) 5	Rate in Words 6	Amount in Rs. 7
PART - I						
1	OXYGEN SYSTEM					
1a	Oxygen Manifold of 10+10 Cylinders capacity (Imported). The Oxygen Manifold shall be complete with all accessories etc as required as per specifications. The oxygen manifold shall have provision to connect the system with liquid oxygen vessel..	Set	1			
1b	Fully Automatic Control Panel (Imported) for the Oxygen Manifold system complete with all accessories etc. as per specifications	Set	1			
1c	4 Cylinder Emergency Oxygen (Imported) Manifold with a high flow regulator with gauges and safety valves complete with all accessories etc. as required as per specification	Set	1			
1d	Terminal (Oxygen) outlets (Imported) complete with all accessories etc as required as per specifications.	Nos.	122			
1e	High Pressure tubing	Metre	366			
2	Nitrous Oxide System					
2a	Nitrous Oxide Manifold of 2+2 Cylinder (Imported) capacity(Bulk cylinder D Type). The N2O manifold shall be complete with all accessories etc. as per specifications	Set	1			
2b	Fully Automatic Control Panel (Imported) for N2O system and complete with all accessories etc. as required as per specifications	Set	1			

2c	One (1) Cylinder Emergency (Imported) Nitrous Oxide complete in all respect as per specifications	Set	1			
2d	Nitrous Oxide Terminal Outlets (Imported) with probes/adaptors complete with all accessories etc as required as per specifications.	Nos.	4			
2e	High Pressure tubing flexible having Antistatic core as per ISO with proper colour coded complete with all accessories etc as required as per specifications.	Metre	18			
3	VACUUM SYSTEM (Imported)					
3a	Duplex/Two Nos Vacuum System of 220 cfm/ 6000 LPM capacity Rotary vane typed pump complete with all accessories etc as required as per specifications.	Set	1			
3b	Vacuum Terminal Outlets complete with all accessories etc as required as per specifications.	Nos.	122			
3c	Tubing flexible having Antistatic core as per ISO with proper colour coded	Metre	366			
4	AIR COMPRESSOR (Imported)					
4a	Duplex/Two Nos medical compressed air supply system complete with all accessories etc as required as per specifications. .	Set	1			
	AIR OUTLETS (Imported)					
4b	For C.A. (4 Bar)	Nos.	31			
4c	For C.A. (7 Bar)	Nos.	4			
4d	High Pressure tubing flexible having Antistatic core as per ISO with proper colour coded.	Metre	62			

5	DISTRIBUTION PIPING (Indigenous)					
	Copper piping of different sizes for distribution and supply of O2, N2O, Compressed Air and vacuum to various areas of the hospital. The copper pipes shall be solid drawn, seamless, deoxidised, non arsenical, half hard, tempered and degreased material complete with all fittings and as per specifications..					
a	76.1 mm ODx 1.5mm thk	Metre	17			
b	54mm ODx 1.2mm thk	Metre	45			
c	42mm ODx 1.2mm thk	Metre	294			
d	28mm ODx 0.9mm thk	Metre	828			
e	22m ODx 0.9mm thk	Metre	693			
f	15mm ODx 0.9mm thk	Metre	491			
g	12mm ODx 0.7mm thk	Metre	450			
6	MODULAR BED HEAD PANELS 1800MM LONG (Imported)					
	Bed head panels for installation of outlets with provision for mounting necessary gas outlets. The bed head panel shall be provided with electrical points, switches, wiring etc . The panels shall be made in extruded aluminium profiles with powder coating and shall accomodate the gas outlets, electrical sockets etc. complete with all accessories etc as required as per specifications.	Nos	10			

8	ALARM (Imported)					
	Master (Main) Alarm Panel to indicate any abnormality of gas pressures and other failures of the system. The alarm system shall be complete with digital display, sensor module and power supply. The alarm shall be complete with all indications controls, wirings, accessories etc. complete as required and as per specifications.	Nos	1			
	Area Alarms for all critical areas The alarm system shall be complete with pressure sensors, indications alarms etc. and with all accessories as required as per specifications.					
a	5S	Nos	4			
b	3 S	Nos	1			
c	2 S	Nos	3			
9	VALVE BOX (Imported)					
a	2S	Nos	3			
b	3 S	Nos	1			
c	5S	Nos	4			
10	ANAESTHETIC GAS SCAVENGING SYSTEM (AGSS) (Imported)	Set	1			
	Duplex Medical Vacuum System complete with all accessories as required and as per specifications.					
	AGSS Terminal Outlets with probes/adapters complete as per specifications	Nos.	6			
	AGSS Hose Assembly	Nos.	6			
11	ELECTRICAL DISTRIBUTION PANEL (Indigenous):-					
	Panel shall incorporate isolators for the Isolator for Medical Compressed air system. II. Isolator for Medical Vacuum System III. Isolator for AGSS System.	Nos.	1			
12	ACCESSORIES					
12.1	Oxygen Flowmeter with Humidifier (Imported) (0-15 litres/minute) with adapter, tubing etc. complete with all the required accessories and shall be complete as per specifications	Sets	122			
12.2	Theatre vacuum unit (Imported) .The vacuum regulator will be step-less adjustable and have large vacuum guage providing digital indication of the suction supplied by the regulator complete with all accessories and as per specifications.	Set	8			
12.3	Ward Vacuum Unit (Imported) ,wall mounted type complete with all accessories as required and as per specifications.	Set	122			

Part-II						
Item No. 1	Description	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in words 6	Amount (Rs.) 7
1	Operation Charges for the complete Medical Gas Manifold System during one year Defect Liability Period as per the contract.					
Part-III						
Item No. 1	Description	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in words 6	Amount (Rs.) 7
1	Comprehensive Maintenance Charges (CMC) for the complete MGMS Equipment including spares, repair or replacement of defective equipments/parts, tolls, tackles, accessories, consumables, labour charges etc. complete in all respect after completion of Defect Liability Period as per the contract.					
	Ist Year	Job	1			
	2nd Year	Job	1			
	3rd Year	Job	1			
	4th year	Job	1			
	5th year	Job	1			
	SUB TOTAL Rs.					
	SUMMARY OF RATES QUOTED					
1	TOTAL (PART-I)					
2	TOTAL (PART-II)					
3	TOTAL (PART-III)					
	Grand Total Amount (PART - I + PART - II+ PART III) (in Figures) :-					
	In words : Rupees					
1	The above quoted rates will be inclusive of all taxes, duties and other charges.					
2	Rate of Operation & CMC will be used for ranking purpose					