

**MINISTRY OF HEALTH & FAMILY WELFARE  
(GOVT. OF INDIA)**

**ALL INDIA INSTITUTE OF AYURVEDA (AIIA), NEW DELHI**

**Tender**

**for**

**Supply, Installation, Testing & Commissioning of Medical Gas  
Manifold System at All India Institute of Ayurveda (AIIA), Sarita  
Vihar, New Delhi**

**VOLUME – IV**

**BILL OF QUANTITIES (BOQ)**

**November 2013**



( Consultants & Engineers for Mega Hospitals & Laboratories )  
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**Tender No. HSCC/SES/AIIA/MGMS/2013**



<b>3</b>	<b>VACUUM SYSTEM Imported</b>				
3a	Vacuum system shall be Duplex (One working & One Standby) 220 cfm capacity (i.e Two pumps together produce vacuum of 220 cfm capacity.) complete as required as per specifications.Imported	Set	1		
3b	Vacuum Terminal Outlets with probes/adapters complete as per specifications.Imported	Nos.	237		
3c	Flexible tubing having Antistatic core as per ISO with proper colour coded complete as per specifications.	Metre	711		
<b>4</b>	<b>AIR COMPRESSOR Imported</b>				
4a	The system shall be consisting of one set i.e Duplex (One working and one standby) capacity of approx. 100 scfm at 8.5bar air compressors, allied equipment,Drier, Filter, suitable tank and control panel complete in all respect and as per specifications Imported	Set	1		
	Compressed Air Terminal Outlets with probes/adapters complete as per specifications.				
4b	For C.A. (4 Bar) Imported	Nos.	27		
4c	For C.A. (7 Bar) Imported	Nos.	8		
4d	High Pressure tubing flexible having Antistatic core as per ISO with proper colour coded complete as per specifications.	Metre	105		
<b>5</b>	<b>DISTRIBUTION PIPING (Indigenous)</b>				
	Medical graded Copper pipes shall be solid drawn, tempered, seamless, phosphorous deoxidized, non-arsenic and degreased for oxygen service. The chemical composition shall be as per BS-6017: 1981 Table 2, Cu-DHP grade. Distribution Copper Pipe manufactured as per BSEN:13348 complete with dew point apparatus and carbon monoxide monitoring facility as per specifications.				
a	76 mm ODx 1.5mm thk	Metre	23		
b	54mm ODx 1.5mm thk	Metre	69		
c	42mm ODx 1.5 mm thk	Metre	92		
d	28mm ODx 1.0 mm thk	Metre	765		
e	22m ODx 1.0 mm thk	Metre	2012		

f	15mm ODx 1.0 mm thk	Metre	1546			
g	12mm ODx 1.0mm thk	Metre	782			
<b>6 ALARM Imported</b>						
	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.	Set	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	5 S	Nos	4			
c	3 S	Nos	2			
d	2 S	Nos	7			
<b>7 HORIZONTAL BED HEAD PANELS Imported</b>						
	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 accommodate the gas outlets, electrical sockets etc. complete as per specifications.	Set	7			
<b>8 VALVE BOX Imported</b>						
a	Valve Box - 2 Gas Services	Nos	4			

b	Valve Box - 3 Gas Services	Nos	2			
d	Valve Box - 5 Services	Nos	7			
9	<b>ANAESTHETIC GAS SCAVENGING SYSTEM (AGSS) (Imported)</b>					
	Duplex Medical Vacuum System The system shall comprise of two oil less rotary vane vacuum pumps, a control panel and a receiver all mounted on a common base frame. One pump shall be a standby The system shall be complete with all accessories as required and as per specifications.	Set	1			
	AGSS Terminal Outlets with probes/adapters complete as per specifications	Nos.	9			
	AGSS Hose Assembly	Nos.	9			
10	<b>ELECTRICAL DISTRIBUTION PANEL (Indigenous):-</b>					
	Panel shall incorporate isolators for the Isolator for Medical Compressed air system. I. II. Isolator for Medical Vacuum System III. Isolator for AGSS System.	Nos.	1			
11	<b>ACCESSORIES</b>					
11.1	<b>Oxygen Flowmeter with Humidifier</b> (0-15 litres/minute) with adapter, tubing etc. complete with all the required accessories and shall be complete as per specifications Imported	Sets	237			
11.2	<b>Theatre vacuum unit.</b> 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. Imported	Set	4			
11.3	<b>Ward Vacuum Unit</b> wall mounted type complete with all accessories as required and as per specifications. Imported	Set	237			
12	<b>Low Pressure Silicon Tubing</b>	mtr	500			
14	<b>TURNKEY</b>	Lot	1			

<b>Part-II</b>								
	Item No.	1	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in words 6	Amount 7	Rs
1	Operation Charges for the complete Medical Gas Manifold System during one year Defect Liability Period as per the contract.							
<b>Part-III</b>								
	Item No.	1	Unit 3	Qty 4	Unit Rate In Rs (in Figure) 5	Unit Rate in words 6	Amount 7	Rs
1	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 after completion of DLP as per the contract.							
	1st Year		Job	1				
	2nd Year		Job	1				
	3rd Year		Job	1				
<b>SUB TOTAL Rs.</b>								
<b>SUMMARY OF RATES QUOTED</b>								
TOTAL (PART-I)								
TOTAL (PART-II)								
TOTAL (PART-III)								
Grand Total Amount (PART - I + PART - II+PART -III) (in Figures) :-								
Grand Total in Words: Rupees								

**Note**

- 1 The above format of Bill of Quantity(BOQ) should be neatly hand written.
- 2 The BOQ in any other format than the above format or typed written shall be rejected
- 3 The above quoted rates will be inclusive of all taxes, duties and other charges.
- 4 Cutting and overwriting should be avoided. Correction should be countersigned always.
- 5 Incase any error between Unit rate in figure and unit rate in words, the unit rate in words shall be considered
- 6 Using of fluid should be avoided
- 7 Rates of Operation charges and CMC shall be for evaluation and ranking purpose

SEAL & SIGN OF THE BIDDER