

**Ministry of Health & Family Welfare
(GOVERNMENT OF INDIA)
Ministry of Health & Family Welfare
Nirman Bhavan, Maulana Azad Road
New Delhi – 110011**

Tender for

**Design, Supply, Installation, Commissioning
of Medical Gas Pipeline and Manifold System
for Nizam's Institute of Medical Sciences,
Hyderabad
under PMSSY**

Volume -V

Bill of Quantities

SEPTEMBER 2010

Tender No. MoHFW/HSCC/PMSSY/HYD /MGMS/2010

Consultant

HSCC (India) LTD.

(A Govt. of India Enterprise)

E-6A, Sector-1, Noida, U.P-201301

Phone: 0120-2542436-40, Fax: 0120-2542447

Website:<http://www.hsccltd.com>

Bill of Quantity

For Medical Gases Pipeline System

For NIMS, Hyderabad (Trauma & Speciality Block)

S.No.	Description	Country of Origin	Unit	Qty	Rate (in Figures)	Rate (in Words)	Amount
" PART - I " (The rates under this head shall be inclusive of one year comprehensive warranty & maintenance of complete system during defect liability period)							
A	Oxygen System						
1	Supply, Installation, Testing and Commissioning of 20+20 size manifold extendable type complete with middle frame with chain for individual cylinder (bulk cylinder D-type) along with Non Return Valves for every cylinder and copper tail pipes as per Technical specification	Imported	Set	1			
2	Supply, Installation, Testing and Commissioning of Fully Automatic Gas Control Panel for Oxygen as per Technical Specifications enclosed	Imported	Set	1			
3	Supply, Installation, Testing and Commissioning of 10+10 Cylinder Emergency Oxygen Manifold with two state High flow rate regulator with NRV for every cylinder and copper tail pipes as per technical specifications enclosed	Imported	Set	1			
4	Supply, Installation, Testing and Commissioning of Gas Outlets with probes/Adaptors as per NFPA,CSA UL Listed as per Technical Specification enclosed	Imported	Nos	323			
5	Supply, Installation, Testing and Commissioning of Oxygen Flowmeter (0-15/litres/minute) with Humidifier to use bubble type humidification process complete with all accessories and complete as per Technical Specification enclosed	Imported	Nos	305			
6	Supply, Installation, Testing and Commissioning of H.P Tubing Flexible having antistatic Core as per ISO with Proper colour coded as per Technical Specification enclosed	Imported	Mtrs	150			
7	Supply, Installation, Testing and Commissioning of Oxygen Cylinders (D- Type) for Manifold as per technical Specifications enclosed	Indigenous		60			
8	Supply, Installation, Testing and Commissioning of Liquid Oxygen Storage Tank (10,000 ltrs.) as per technical Specifications enclosed	Indigenous		1			

S.No.	Description	Country of Origin	Unit	Qty	Rate (in Figures)	Rate (in Words)	Amount
B	Nitrous Oxide System						
1	Supply, Installation, Testing and Commissioning of 6 + 6 size manifold extendable type complete with middle frame with chain for individual cylinder (bulk cylinder D-type) along with Non Return Valves for every cylinder and copper tail pipes as per Technical specification	Imported	Set	1			
2	Supply, Installation, Testing and Commissioning of Fully Automatic Gas Control Panel for N2O as per Technical Specifications enclosed	Imported	Set	1			
3	Supply, Installation, Testing and Commissioning of 2 + 2 Cylinder Emergency N2O Manifold with two state High flow rate regulator with NRV for every cylinder and copper tail pipes as per technical specifications enclosed	Imported	Set	1			
4	Supply, Installation, Testing and Commissioning of Gas Outlets with probes/Adaptors as per NFPA, CSA UL Listed as per Technical Specification enclosed-(Imported)	Imported	Nos	16			
5	Supply, Installation, Testing and Commissioning of H.P Tubing Flexible having antistatic Core as per ISO with Proper colour coded as per Technical Specification enclosed	Imported	Mtrs	150			
6	Supply, Installation, Testing and Commissioning of N2O Cylinders (D - Type) for Manifold as per technical Specifications enclosed	Indigenous		16			
C	Compressed Air System						
1	Supply, Installation, Testing and Commissioning of Medical Compressed Air Triplex Recircating Oil Less Continupous Air System with Desicant Dryers having 58 CFM Capacity as per Technical Specifications enclosed	Imported	Set	1			
2	Supply, Installation, Testing and Commissioning of Gas Outlet with probes/Adaptors as per NFPA , CSA UL Listed as per Technical specification enclosed	Imported					
	For C.A air (4bar)		Nos	302			
	For C.A (7 bar)		Nos	20			
3	Supply, Installation, Testing and Commissioning of H.P Tubing Flexible having antistatic Core as per ISO with Proper colour coded as per Technical Specification enclosed	Imported	Mtrs	150			

S.No.	Description	Country of Origin	Unit	Qty	Rate (in Figures)	Rate (in Words)	Amount
D	Vaccum System						
1	Supply, Installation, Testing and Commissioning of Qadraplex Lubricate Medical Raotary Vaccum System (3 Working +1Standby), having 172CFM Capacity each as per technical specification enclosed	Imported	Set	1			
2	Supply, Installation, Testing and Commissioning of Gas Oulets with probes/Adapters as per NFPA,CSA,UL listed as per technical specifcation enclosed-Imported	Imported	Nos	323			
3	Supply, Installation, Testing and Commissioning of Ward Vaccum Units with Regulator Collection jar of 1200 ml with bracket as per Technical specification enclosed	Imported	Nos	305			
4	Supply, Installation, Testing and Commissioning of Theatre Suction Units ,Trolley Mounted with 2nos 3200 ml Collection jars,jar selector unit and Suction Controller as per Technical Specification enclosed	Imported	Nos	16			
5	Supply, Installation, Testing and Commissioning of H.P Tubing Flexible having antistatic Core as per ISO with Proper colour coded as per Technical Specification enclosed	Imported	Mtrs	150			
E	Anaesthetic Gas Scavenging System						
1	Supply, Installation, Testing and Commissioning of Anaesthetic Gas Scavenging System having 30.42 CFM Capacity as per Technical Specifications enclosed	Imported	Set	1			
2	Supply, Installation, Testing and Commissioning of Gas Oulets with probes/Adapters as per NFPA,CSA,UL listed as per technical specifcation enclosed-Imported	Imported	Nos	20			
F	Supply, Installation, Testing and Commissioning of Zonal Valve as per Technical specifications enclosed	Imported					
	For 22mm		No.	20			
	For 28 mm		No.	20			
	For 42 mm		No.	10			
	For 54 mm		No.	10			
G	Copper Piping						
	Supply, Installation, Testing and Commissioning of Copper Piping as per Techncial Specification enclosed(BS EN 13348:2001 standard	India					
	76mm OD X 1.2 mm thk		Mtrs	40			
	54 mm OD X 1.2 mm thk		Mtrs	750			
	42 mm OD X 1.2 mm thk		Mtrs	2000			
	28 mm OD X 0.9 mm thk		Mtrs	4000			
	22 mm OD X 0.9 mm thk		Mtrs	2820			
	15 mm OD X 0.9 mm thk		Mtrs	3150			

S.No.	Description	Country of Origin	Unit	Qty	Rate (in Figures)	Rate (in Words)	Amount
	12 mm OD X 0.9 mm thk		Mtrs	1030			
H	Supply, Installation, Testing and Commissioning of Master Area Alarm as per Technical specifications enclosed	Imported	Set	2			
I	Supply, Installation, Testing and Commissioning of Area Alarm as per Technical Specifications enclosed						
	5 Gas Seivces (O2,N2O,MA,VAC)		Nos.	8			
	4Gas Services (O2,MA,VAC)		Nos.	4			
	3 Gas Services (O2,VAC)		Nos.	10			
J	Supply, Installation, Testing and Commissioning of Valve Box as per technical a specifications enclosed	Imported					
	5 Gas Seivces		Nos.	10			
	4 Gas Services		Nos.	2			
	3 Gas Services		Nos.	14			
	2 Gas Services		Nos.	10			
K	Supply, Installation, Testing and Commissioning of Bed Head panel as per Technical specifications enclosed	Imported	Nos.	61			
L	Pendant						
(i)	Single Arm moveable pendant with 1000 mm long arm having weight carrying capacity of more than 100 kgs.Six electrica; sockets 5/15 amp,one monitor shelf and Supply, Installation, Testing and Commissioning of provision for gas outlets as per technical specifications	Imported	Nos.	14			
(ii)	Supply, Installation, Testing and Commissioning of Pillar Type Pendant for Modular OT as per Technical Specifications	Imported	Nos.	2			
	Total (PART- I)						

S.No.	Description	Country of Origin	Unit	Qty	Rate (in Figures)	Rate (in Words)	Amount
	" PART - II "						
M	Warranty & Maintenance:-						
	Providing Comprehensive on-site warranty and maintenance for a period of 4 years after successful completion of defect liability period for Part I. The comprehensive on-site warranty shall include all spares including replacements/repairs as required.						
1	Year 1 (One) from the date of satisfactory completion of defect liability period		LS	1			
2	Year 2 (Two) from the date of satisfactory completion of defect liability period		LS	1			
3	Year 3 (Three) from the date of satisfactory completion of defect liability period		LS	1			
4	Year 4 (Four) from the date of satisfactory completion of defect liability period		LS	1			
	Total (PART- II)						

S.No.	Description	Country of Origin	Unit	Qty	Rate (in Figures)	Rate (in Words)	Amount
SUMMARY OF RATES QUOTED							
1	TOTAL (PART-I)						
2	TOTAL (PART-II)						
Grand Total Amount (PART - I + PART - II) (in Figures)							
Grand Total Amount (PART - I + PART - II) (in Words) :-							