

**SCHEDULE OF REQUIREMENT & PRICE FOR
“SUPPLY MEDICAL GASES ON RATE CONTRACT BASIS”
AT SHAHEED MOHTARMA BENAZIR BHUTTO INSTITUTE OF
TRAUMA, KARACHI
FOR THE FINANCIAL YEAR 2022-23 & 2023-24**

S. #	NAME OF ITEMS	Qty. for Rate Running	Unit	Rate Running Contract for Unit Price
A) Filling of Medical Gases Cylinder				
1.	Compressed Medical Oxygen Capacity of Cylinders			
a)	Pin Index O2	01	Cylinder	
b)	48 CFT	01	Cylinder	
c)	240 CFT	01	Cylinder	
2.	Nitrous Oxide Capacity of Cylinder (240 CFT)	01	Cylinder	
3.	Compressed Helium (42.3 CFT)	01	Cylinder	
4.	Compressed Nitrogen (240 CFT)	01	Cylinder	
5.	CO2 (medical grade) (240 CFT)	01	Cylinder	
B)Cylinder Maintenance				
1.	Medical Oxygen Cylinder Valve Replacement	01	Unit	
2.	Medical Oxygen Cylinder Spindle Replacement	01	Unit	
3.	Medical Oxygen Cylinder Hydraulic Pressure Testing	01	Unit	
4.	Medical Oxygen Cylinder Painting	01	Unit	
5.	Medical Oxygen Cylinder Ring	01	Unit	
6.	Nitrous Oxide Cylinder Valve Replacement	01	Unit	
7.	Nitrous Oxide Cylinder Spindle Replacement	01	Unit	
8.	Nitrous Oxide Cylinder Hydraulic Pressure Testing	01	Unit	
9.	Nitrous Oxide Cylinder Painting	01	Unit	

S. #	NAME OF ITEMS	Qty. for Rate Running	Unit	Rate Running Contract for Unit Price
10.	Nitrous Oxide Cylinder Ring	01	Unit	
11.	Nitrous Oxide Cylinder Drying Charges	01	Unit	
C) Liquid Oxygen Gas				
01	Liquid Oxygen Gas	01	Cubic Meter	
02	VIE Tank Rent / Services Charges	01	Month	
03	Transportation (FOC)	-	-	-

VIE installation and mentioned complete work will be on FOC.

SUPPLY AND INSTALLATION OF VIE:

Supply and installation of VIE Base and its fence including plumbing and electric work where required with all required Material as per SOP of VIE Tank safety and Security requirement & also Oxygen connectivity from tank to hospital main oxygen line will be the Responsibility of vendor. (When it will be required, informed through a letter from the competent authority.)

1) TECHNICAL SPECIFICATIONS FOR VIE TANK

MANUFACTURING:

1. The Supplier must exhibit evidence of capability to produce range of medical gases at its own facility Especially Liquid Medical Oxygen under the British, US or European Pharmacopoeia.
2. Supply of medical gases are of critical lifesaving nature no excuse whatsoever shall be accepted for any delay / and or disruption of supplies.
3. Tenderer must provide evidence of the production of medical gases under British (BP) / US (USP) or European (Eur. Phar.) pharmacopoeia or any equivalent.
4. Medical Gases must be manufactured under CGMP (Current Good Manufacturing Processes) and ISO guidelines. Evidence of this must be submitted as qualified / licensed by a Competent Authority.

QUALITY & TRACEABILITY:

1. The Supplier must have the ability to trace each and every batch of any medical gas specially. Medical Oxygen produced and processed in-house or otherwise sold directly or indirectly to the hospital.
2. The Supplier must provide evidence of periodic quality testing records of the medical

Liquid tank with major and minor components installed in their own premises & at costumer location. The QC Lab must be fully equipped to test all gas components listed under the Pharmacopoeia using the appropriate test equipment or equivalent.

RELIABILITY & PATIENT SAFETY:

1. For liquid medical gas manufacturers evidence of HTM certified Authorized Person who has the credentials and authority to design, install, supervise, validate and maintain a bulk liquid medical oxygen installation at a hospital.
2. Its responsibility of Supplier to installation independent low / high level and pressure alarms at the VIE installed at hospitals for both the VIE and the hospital supply line.
3. Proof of installation of medical oxygen compliant - low pressure, high flow capable of atleast 2000-3000 Liters per minute flow at the hospital VIE system for round the clock maintenance of pressure and flow requirements of the hospital without requiring a manual pressure adjustment and/or to cater and regulate the correct pressure and flow even to the farthest wards of the hospital.
4. Evidence of dedicated Medical Gas Pipeline System team of experts who can respond to, investigate, analyze, diagnose, propose, execute and validate any hospital emergency and / or complication arising out of the VIE system failure and the ability to fully and effectively prevent, control and manage any medical gas supply related issue and its tenderer responsibility to arrange backup supply till clearance of main VIE.

FENCE SPECIFICATION AND BASE CONSTRUCTION

1. Supplier will be responsible for Complete supply and installation of VIE Base and its fence including plumbing and electric work where required with all required Material as per SOP of VIE Tank safety and Security requirement.

Note: Any item which is not included in above mentioned list; will be procured on market competitive rate.

Financial proposal must be submitted on company letter head duly signed and stamped. Bidder is required to mention grand total amount in figure and as well as in words.

Signature of Manufacturers /Importers/Sole Agents/Contractors: - _____

Name of Firm: - _____

Full Address: - _____

Telephone No. Office: - _____ Cell No: - _____

Email Address (if any) _____