

# MEDICAL PSA OXYGEN GENERATION PLANT

- ✓ LOW ENERGY CONSUMPTION
- ✓ LONG LIFE
- ✓ SMART ALGORITHM



2

**VF MedFreshe**



**Med Freshe** actively working in the hospital Medical Gas Pipeline System (MGPS). We offer a single window service from offering technical service solutions, manufacturing, supply, installation, testing, commissioning (SITC) job . The vision of our firm is to fulfill international standards in customer demands without compromising critical value, ensure customer satisfaction and aims to raise the quality of life of patients.

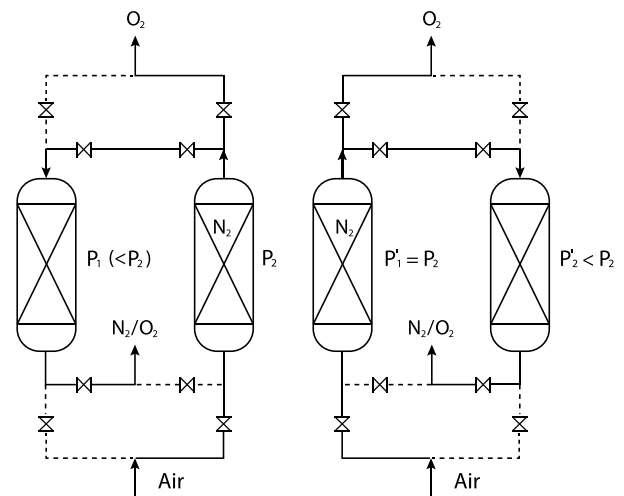
Solutions that Make Value Continuing its work without sacrificing the quality of service, **Med Freshe** which acts as a partner to all its customers, with its expertise, experience, knowledge and a more creative and innovative approach offers more usable and valuable solutions.

**Med Freshe**, watching very closely all developments related to the sector it serves world, technological innovations and their applications in certain has been working to bring its customers. With a young and dynamic team structure, our customers receives fast, quality and affordable solutions.

## Pressure Swing Adsorption Technology

Pressure Swing Adsorption (PSA) technology is used with specially developed adsorbents called zeolite to separate oxygen from nitrogen to be able to use pure oxygen in many applications.

First, air is compressed up to 10 bars with the help of compressors, then air is dried out to remove the moisture in the air using refrigerant air dryers. Filtration takes place thereafter to filter out the remaining particles, aerosol and oil which is in the pressurized air stream by using the filters of as low as 0.01um filtration capacity. Carbon Tower filter ensures long term oil free oxygen delivery. PSA unit consists two tanks filled with zeolite. Each column undergoes cyclic sequence of pressurization, generation, equalization and exhaust cycles for continuous flow of high purity oxygen. The oxygen is stored in the oxygen buffer tank and again passed through a filter assembly for delivery of purified oxygen.



## PSA Advantages



- Reduction of oxygen cost
- Safe low-pressure oxygen usage instead of explosive high-pressure cryogenic cylinders
- Elimination of logistical and administrative operations
- Elimination of orders and deliveries / Indian Pharmacopoeia / US Pharmacopoeia / EU Pharmacopoeia as per IP, USD
- Ready to use high technology solutions

Our products are designed for producing  $93 \pm 3\%$  purity medical oxygen gas from air.

Our devices are used in:

- Hospitals.
- Polyclinics.
- Rehabilitation Centres.

Oxygen Generators should be used by technical staff who have successfully finished their training.

## Specification

Product	: 93±3 Medical Oxygen Gas
Zeolite Type	: High Efficiency Molecular Sieve
Control Modes	: 93±3%, 95±1%
Control System	: PLC
Use	: Fully Automatic / Touch Screen
Screen Type	: Color TFT, Touchscreen LCD
Real Time Operation Animation	: Yes
Keypad	: Touchscreen
Communication	: Micro SD and Ethernet
Warning System	: Visual, Audible, SD Card and Ethernet
Data Recording	: Yes
Real Time Monitoring	: Touchscreen and Remote Desktop
Security	: 1 Operator, 1 Service
Service Maintenance Reminder	: Yes
Language	: English (Other languages available on request )
Sensors	: 4 x Pressure, 1 x Temperature, 1 x Humidity, 1 x Oxygen 1 x Flow meter, 1 x CO (optional), 1 x CO2 (optional)
Filters	: 5 μm, 1μm, 0.01 μm, Carbon Filter, Sterile Filter, Dust Filter in accordance with ISO 8573-1, ISO 8573-2 & ISO 8573-4
Oxygen Sensor	: Our system is supported by galvanic sensor which has been widely used in PSA oxygen concentrator to measure the oxygen concentration and flow.



### Related Directives and Standards

Medical Device Directive	: MDD 93/42/EEC
Medical Device Class	: Class 2b, acc. to EC MDD 93/42/EEC
Low Voltage Directives	: EN 60601-1
Electromagnetic Compatibility Directives	: EN 60601-1-2
Quality Management System Requirements	: ISO 9001
Medical Devices Regulatory Requirements	: ISO 13485
Environment Management System	: ISO 14001
Electrical Connection	: 110-220V ±10% - 50-60Hz 220-440V ±10% - 50-60Hz

### Safety and Quality

- Protection against current leaks
- Short circuit protection
- Password protection
- Emergency stop button
- Over pressure protection
- Low oxygen tank pressure warning
- Low oxygen purity warning
- UPS support for electricity failures

### EU / IN / US / Pharmacopoeia Requirements for Medical Oxygen 93

O <sub>2</sub>	:	93 ± 3
CO <sub>2</sub>	:	< 300 ppm
CO	:	< 5 ppm
NO <sub>x</sub>	:	< 2 ppm
SO <sub>2</sub>	:	< 1 ppm
Oil	:	< 0.1 mg/m <sup>3</sup>
Water	:	< 67 ppm

### Working Conditions

Operating Temperature	: 5 °C- 40 °C
Max. Operating Pressure	: 10 bar(g)
Test Pressure	: 15 bar(g)

## Key Features of PSA Oxygen Generator

- Medical Oxygen from 93% to 95% (93±3%) / 99%
- Fully Automatic 24/7
- Real time trends of process parameters
- Visual recommended service maintenance reminders
- Algorithm against electricity cuts-off (Purity does not drop after electricity cuts-off)
- Highest packing density of zeolites (specifically designed filling station)
- Uniform flow distribution design to maximize zeolite life
- Specifically designed Starting and Stopping points to protect purity from dropping
- Humid protection system (Humid air cannot enter the zeolite tanks)
- Medical Grade Oxygen Filtration
- High Efficiency Molecular Sieve+
- Real Time Monitoring
- Remotely Manageable via Ethernet
- Recording Capabilities and Data Logging
- Multi-level secured access for supervisory control
- Top quality valves and flow meter
- Medical Device CE
- User Friendly Interface
- Multi language



## Performance of Medical PSA Oxygen Generator

Model No.	Capacity of Medical PSA Oxygen Generator	93%		Air Cons.		95%		Air Cons.	
		Nm3/h	NL/min	SCFH	Nm3/h	Nm3/h	NL/min	SCFH	Nm3/h
MEDIOXY-30	30 LPM	1.8	30	64	20	1.6	27	57	20
MEDIOXY-50	50 LPM	3.0	50	106	34	2.7	45	95	34
MEDIOXY- 70	70 LPM	4.2	70	148	46	3.7	62	131	46
MEDIOXY-100	100 LPM	6.0	100	212	66	5.3	88	187	66
MEDIOXY-150	150 LPM	9.0	150	318	99	7.9	132	279	99
MEDIOXY-200	200 LPM	12	200	424	126	10.5	175	371	126
MEDIOXY-250	250 LPM	15	250	530	162	13.6	227	480	162
MEDIOXY-300	300 LPM	18	300	636	192	15.9	265	562	192
MEDIOXY-400	400 LPM	24	400	848	286	21.0	350	742	286
MEDIOXY-500	500 LPM	30	500	1060	350	26.0	433	918	350
MEDIOXY-600	600 LPM	36	600	1271	425	32.1	535	1134	425
MEDIOXY-750	750 LPM	45	750	1589	519	40.1	668	1416	519
MEDIOXY-1000	1000 LPM	60	1000	2119	668	52.0	867	1836	668
MEDIOXY-1250	1250 LPM	75	1250	2649	870	65	1083	2295	870
MEDIOXY-1500	1500 LPM	90	1500	3178	954	77	1283	2719	954
MEDIOXY-1800	1800 LPM	108	1800	3814	1260	96	1600	3390	1260
MEDIOXY-2000	2000 LPM	120	2000	4260	1333	106.6	1801.8	-	-

More than 2000 LPM are also available as per customization on special request.

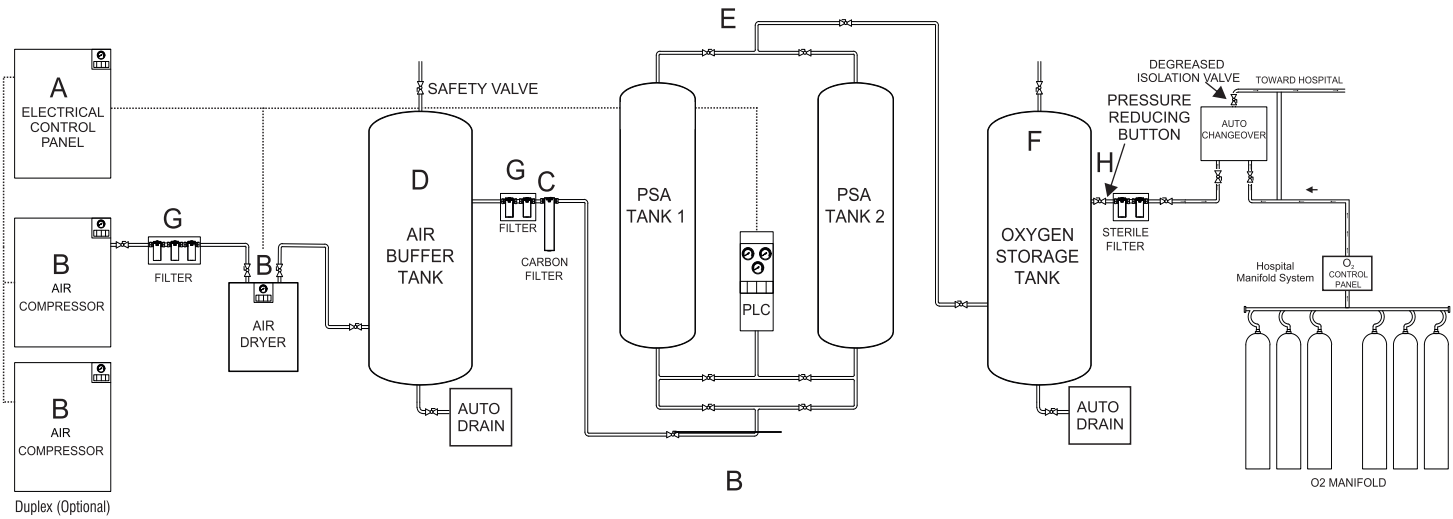
Performance at 20°C and 1 bar atmospheric conditions.

Required inlet compressed air quality is 1:4:1 according to ISO 8573-1.

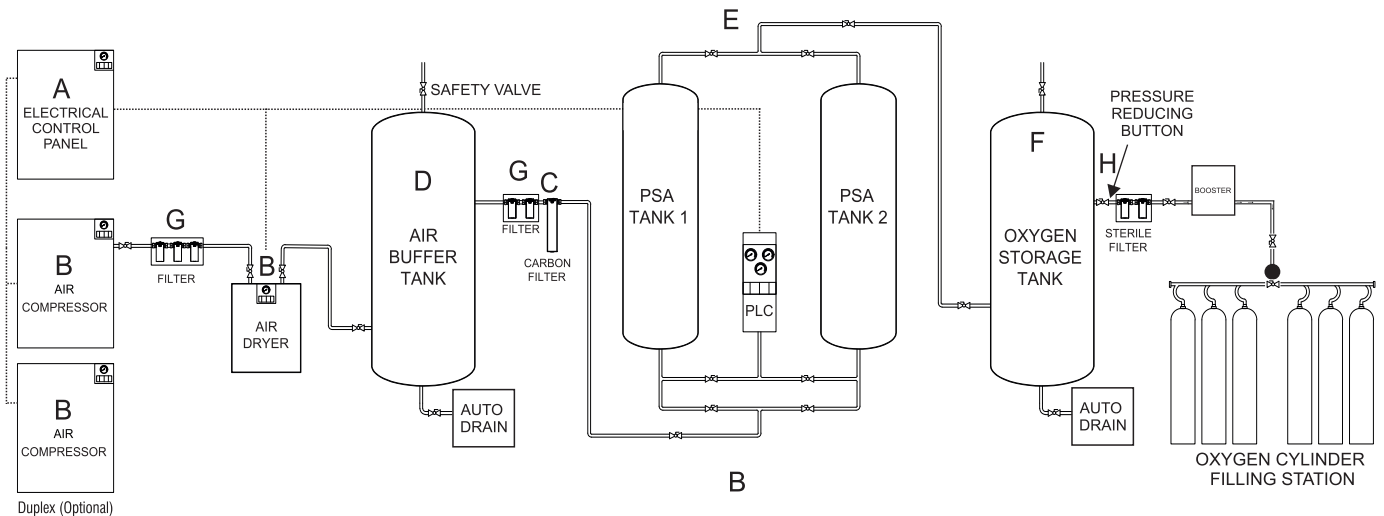
Purity and Capacity values may slightly change during the life time of the generator.

Purity and Capacity values may slightly change depending on the atmospheric conditions.

PSA Plant  
 ←————→  
 (Example Layout)



PSA with Cylinder Filling Plant Booster  
 ←————→  
 (Example Layout)



## Main Installation Parts

- A. Compressor
- B. Air dryer with dew point
- C. Coal Filter
- D. Air tank as per ASME / IS standard
- E. 2-Column PSA generator with internal piping & electric cabinet
- F. O<sub>2</sub> storage tank as per IS standard
- G. Filters
- H. Pressure reducing station(0-4.5 bar)
- I. Degreased copper pipe installation from oxygen receiver to auto changeover panel as per HTM 02-01 / Other International Standards

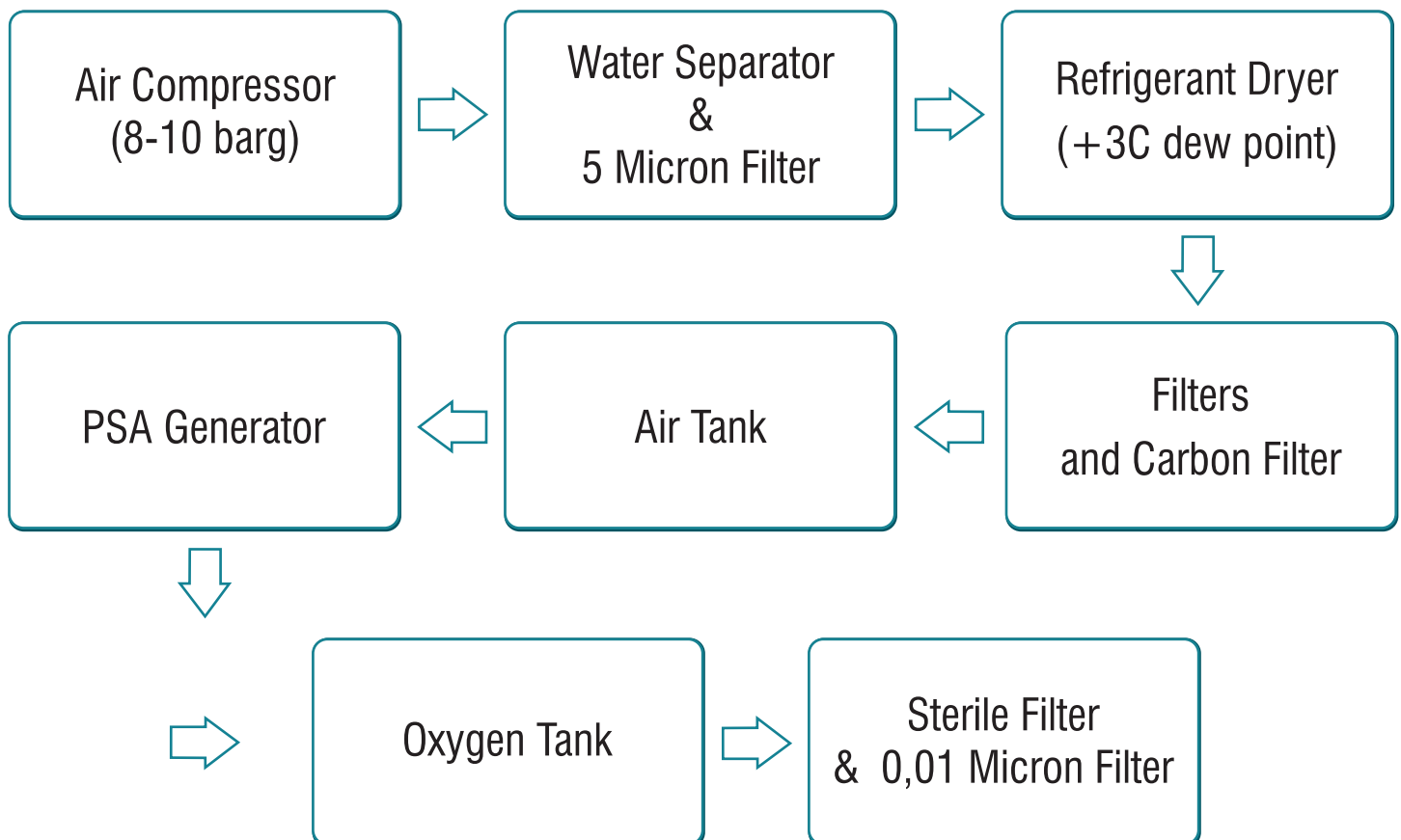
## Parts in the Cabinet

1. Valves for air inlet
2. Valves for nitrogen exhaust
3. Feed air pressure regulator
4. Valve island pressure regulator
5. Oxygen sensor pressure regulator
6. Valve island
7. Axial valve for equalization
8. Axial valves for production
9. Oxygen sample port
10. Oxygen sensor hose connection
11. Oxygen sensor
12. Nitrogen Muffler

## Optional System

1. Second Compressor
2. Cylinder Filling System

## Block Schematic



# CERTIFICATES

**RO**  
QUALITY RESEARCH ORGANIZATION

**Certificate of Registration**

This is to certify that  
**MED FRESHE PRIVATE LIMITED**  
Narula's Tower II, Third Floor, Building No. 2, Central Market, Punjabi Bagh West, New Delhi-110 026, India

has been independently assessed by QRO and is compliant with the requirements of:  
**ISO 9001:2015**  
**Quality Management System**

For the following scope of activities:  
Manufacturer & Supply of Medical Surgical Hospital Diagnostic Laboratory Scientific & Rehabilitation Products Equipment / Devices / Furniture / Appliances (Including: Modular Operation Theatres & Modular ICU, Burns Ward Equipment) And Products, Oxygen Generation Plant, Medical Gas Pipe Line, O.T. Equipment, CSSD Sterilization Equipment, CSSD Furniture, Hospital Furniture, Pneumatic Tube System, Waste And Linen Pneumatic Tube System, Bio-Medical Waste Treatment System, Nurse Call System, Automated Storage And Retrieval System, Pharmacy Dispensing System, Curtain Track And IV Track System, Bed Head Panels, OT, ICU Pendant, OT Doors, Hospital Furniture & Rehabilitation Products, Personal Protective Equipment Kits, Coverall Suit, Face Mask, Shoe Cover, Head Cover, Cap, Goggles, Face Shield, Thermometers, Sargoon Cap, Bouffant Cap, Goggles Virus Protection Suit, Doctor Coats, Gowns, Nurse Gowns, Uniform, Disposable, Bedsheet, Sanitizers And Hygiene Products, Test Kits (Blood, Rapid, Swab Or Other), Surface Disinfectants, Sanitization Tunnels, Hygiene And Sanitization Products & Consumables And Other Medical Equipment.

Date of initial registration: 04<sup>th</sup> March 2020      Certificate Expiry: 13<sup>th</sup> March 2021  
Date of this Certification: 04<sup>th</sup> January 2021      Recertification Date: 13<sup>th</sup> March 2023

Certificate Number: 304920031421Q

RO, EGAC, IAF, Chairman

Validity of this certificate is subject to annual surveillance audits or to date availability of or to date 30 days from date of the audit. (In case of surveillance audit is not allowed by the manufacturer it will be considered as suspended / withdrawn).  
The Validity of this certificate can be verified at [www.qro.org](http://www.qro.org).  
This certification of registration remains the property of QRO Certification LLP and shall be returned immediately upon request.  
India Office : QRO Certification LLP  
42, 1st Floor, Near Vodafone, Near Fashion Villa West Metro Station, Delhi-110061, (INDIA)  
Website: [www.qro.org](http://www.qro.org), Email: [info@qro.org](mailto:info@qro.org)

**ISO 9001:2015**

भारत सरकार  
Government of India  
सूक्ष्म, मध्यम एवं बड़े उद्यम विभाग  
Ministry of Micro, Small and Medium Enterprises

**UDYAM REGISTRATION CERTIFICATE**

Our small hands to make you LARGE

UDYAM REGISTRATION NUMBER	UDYAM-DL-11-000445																														
NAME OF ENTERPRISE	MS MED FRESHE PRIVATE LIMITED																														
TYPE OF ENTERPRISE *	SMALL (MEDIUM During Process (Financial Year))																														
MAJOR ACTIVITY	MANUFACTURING																														
SOCIAL CATEGORY OF ENTREPRENEUR	GENERAL																														
NAME OF UNITS	<table border="1"> <tr> <th>Sl. No.</th> <th>Uniting Author/Manufacturer</th> <th>Unit Name</th> </tr> <tr> <td>1</td> <td>DL11000445</td> <td>MED FRESHE PVT. LTD.</td> </tr> <tr> <td>2</td> <td>DL11000430</td> <td>MED FRESHE PVT. LTD.</td> </tr> <tr> <td>3</td> <td>DL11000475</td> <td>MED FRESHE PVT. LTD.</td> </tr> <tr> <td>4</td> <td>DL11000425</td> <td>MED FRESHE PVT. LTD.</td> </tr> </table>	Sl. No.	Uniting Author/Manufacturer	Unit Name	1	DL11000445	MED FRESHE PVT. LTD.	2	DL11000430	MED FRESHE PVT. LTD.	3	DL11000475	MED FRESHE PVT. LTD.	4	DL11000425	MED FRESHE PVT. LTD.															
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NATIONAL INDUSTRY CLASSIFICATION CODES	<table border="1"> <tr> <th>Sl. No.</th> <th>MSIC Code</th> <th>MSIC Description</th> <th>MSIC Group</th> <th>Activity</th> </tr> <tr> <td>1</td> <td>281</td> <td>Manufacture of metal structures</td> <td>2811 - Manufacture of fabricated or assembled (integral) industrial or structural metal structures</td> <td>Manufacturing</td> </tr> <tr> <td>2</td> <td>282</td> <td>Manufacture of other metal products</td> <td>2829 - Manufacture of other plastic products n.e.c.</td> <td>Manufacturing</td> </tr> <tr> <td>3</td> <td>283</td> <td>Manufacture of plastic products</td> <td>2839 - Manufacture of other plastics n.e.c.</td> <td>Manufacturing</td> </tr> <tr> <td>4</td> <td>33</td> <td>Manufacture of machinery</td> <td>3399 - Manufacture of other machinery n.e.c.</td> <td>Manufacturing</td> </tr> <tr> <td>5</td> <td>35</td> <td>Other</td> <td>3599 - Manufacture of other electrical and electronic devices</td> <td>Manufacturing</td> </tr> </table>	Sl. No.	MSIC Code	MSIC Description	MSIC Group	Activity	1	281	Manufacture of metal structures	2811 - Manufacture of fabricated or assembled (integral) industrial or structural metal structures	Manufacturing	2	282	Manufacture of other metal products	2829 - Manufacture of other plastic products n.e.c.	Manufacturing	3	283	Manufacture of plastic products	2839 - Manufacture of other plastics n.e.c.	Manufacturing	4	33	Manufacture of machinery	3399 - Manufacture of other machinery n.e.c.	Manufacturing	5	35	Other	3599 - Manufacture of other electrical and electronic devices	Manufacturing
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**MSME**

**Certificate of Compliance**

We hereby declare that the technical file of product complied with the requirement of directive Council Directive 89/686/EEC

Certificate no. QCAS-20-MFD-0414PA

Manufacture Name : MED FRESHE PRIVATE LIMITED  
Address : Narula's Tower II, Third Floor, Building No. 2, Central Market, Punjabi Bagh West, New Delhi - 110 026, INDIA  
Product : As per Annexure-1  
Applicable Standard: ANSI/SEA Z 87.1-2010, ANSI/SEA 105-2011, ASTM D6319-10

Complies with the requirements applicable to it  
The Certification body has performed an audit of the above product quality system covering the design, manufacture and final inspection of the certified product. The quality system has been assessed, approved and is subject to continuous surveillance according to the directive Council Directive on Medical Devices 93/42/EEC as Amended 2007/47/EC & Personal Protective Equipment Directive (89/686/EEC)

This certificate is issued under the following conditions:  
1. It applies only to the quality system maintained in the manufacture of above referenced models and it does not substitute the design or type-examination procedures, if required.  
2. The certificate remains valid until the manufacturing conditions or the quality systems are changed.  
3. The certificate validity is conditioned by positive results or surveillance audits.  
4. After fulfilling the requirements, the manufacturer shall affix to each device, of the above referenced models.  
5. The CE mark as shown above can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of conformity and compliance with all relevant EC Directives. The statement is based on a single evaluation of one sample of above mentioned product. It does not imply an assessment of the whole production.

Validity of this certificate can be verified at [www.gaafs.us](http://www.gaafs.us)  
Date of Certification: 14<sup>th</sup> April 2020  
1<sup>st</sup> Surveillance Due: 13<sup>th</sup> April 2021  
2<sup>nd</sup> Surveillance Due: 13<sup>th</sup> April 2022  
Certificate Expiry (Subject to the company maintaining its system to the required standard): 13<sup>th</sup> April 2023

CE, Authorized Signatory, QCAS

Validity of this Certificate is subject to Annual Surveillance audits done successfully  
This certificate remains the property of QCAS and must be returned whenever demanded. QCAS is an independent system product and personal assessment body QCAS is accredited by Global Accreditation Assessment Forum Series (GAAFS)

**CE**

**Certificate of Registration**

This is to certify that the  
**MED FRESHE PRIVATE LIMITED**  
Narula's Tower II, Third Floor, Building No. 2, Central Market, Punjabi Bagh West, New Delhi - 110 026, INDIA  
has been assessed by QCAS and found to comply with the requirements of:  
**ISO 13485:2016**  
**Quality Management System For Medical Devices**

For the following scope:  
Manufacture & Supply of Medical, Surgical, Hospital, Diagnostic, Laboratory, Scientific & Rehabilitation Products; Equipments / Devices/ Furniture/ Ortho Implants/ Instruments & Appliances (Including: Modular Operation Theatres & Modular ICU, Burns Ward Equipment) And Products, Oxygen Generation Plant, Medical Gas Pipe Line, O.T. Equipment, CSSD Sterilization Equipment, CSSD Furniture, Hospital Furniture, Pneumatic Tube System, Waste And Linen Pneumatic Tube System, Bio-Medical Waste Treatment System, Nurse Call System, Automated Storage And Retrieval System, Pharmacy Dispensing System, Curtain Track And IV Track System, Bed Head Panels, OT, ICU Pendant, OT Doors, Hospital Furniture & Rehabilitation Products, Personal Protective Equipment Kits, Coverall Suit, Face Mask, Shoe Cover, Head Cover, Cap, Goggles, Face Shield, Thermometers, Sargoon Cap, Bouffant Cap, Goggles Virus Protection Suit, Doctor Coats, Gowns, Nurse Gowns, Uniform, Disposable, Bedsheet, Sanitizers And Hygiene Products, Test Kits (Blood, Rapid, Swab Or Other), Surface Disinfectants, Sanitization Tunnels, Hygiene And Sanitization Products & Consumables And Other Medical Equipment.

Certificate Number: QCAS-20-MFD-0414MD

To verify this certificate please visit at [www.gaafs.us](http://www.gaafs.us)  
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2<sup>nd</sup> Surveillance Due: 13<sup>th</sup> April 2022  
Re-Certificate Due: 13<sup>th</sup> April 2023

Authorized Signatory, QCAS

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**ISO 13485:2016**

**Certificate of Compliance**

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Narula's Tower II, Third Floor, Building No. 2, Central Market, Punjabi Bagh West, New Delhi - 110 026, INDIA  
Has been assessed and found working satisfactorily as per the norms of  
"Good Manufacturing Practice"  
as laid down by World Health Organization  
**Good Manufacturing Practice (GMP) System**

For the following scope:  
Manufacture & Supply of Medical, Surgical, Hospital, Diagnostic, Laboratory, Scientific & Rehabilitation Products; Equipments / Devices/ Furniture/ Ortho Implants/ Instruments & Appliances (Including: Modular Operation Theatres & Modular ICU, Burns Ward Equipment) And Products, Oxygen Generation Plant, Medical Gas Pipe Line, O.T. Equipment, CSSD Sterilization Equipment, CSSD Furniture, Hospital Furniture, Pneumatic Tube System, Waste And Linen Pneumatic Tube System, Bio-Medical Waste Treatment System, Nurse Call System, Automated Storage And Retrieval System, Pharmacy Dispensing System, Curtain Track And IV Track System, Bed Head Panels, OT, ICU Pendant, OT Doors, Hospital Furniture & Rehabilitation Products, Personal Protective Equipment Kits, Coverall Suit, Face Mask, Shoe Cover, Head Cover, Cap, Goggles, Face Shield, Thermometers, Sargoon Cap, Bouffant Cap, Goggles Virus Protection Suit, Doctor Coats, Gowns, Nurse Gowns, Uniform, Disposable, Bedsheet, Sanitizers And Hygiene Products, Test Kits (Blood, Rapid, Swab Or Other), Surface Disinfectants, Sanitization Tunnels, Hygiene And Sanitization Products & Consumables And Other Medical Equipment.

Certificate Number: QCAS-20-MFD-0414GM

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**WHO - GMP**



## OUR SOLUTIONS

- Pneumatic Waste & Laundry Collection System (PWLCS) • Pneumatic Tube System (PTS) • Bio-Medical Waste Treatment System (ISS)
- Central Sterile Supply Department (CSSD) • Modular OT / ICU / Emergency Room / OT Integration • Medical Gas Pipeline System (MGPS)
- **Oxygen Generation System (OGS)** • Nurse Call System (NCS) • Automated Storage & Retrieval System (ASRS) • Burns Ward & Equipment
- Hospital Furniture / OT Table & OT Lights • Curtain Track / IV Track / Wall Guard • Smart Bin System (SBS) • Electric Track Vehicle (ETV)
- Automated Pharmacy Dispensing System (APDS) • Hospital Consultancy & Designing on Turnkey Basis

### Manufacturing Divison:



UNG Tower, 3rd Floor, Building No. 2, Central Market,  
Punjabi Bagh West, New Delhi - 110026, INDIA  
Phone : (+91-11) 4545 9999 (Hunting Line)  
E-mail : sales@medfreshe.com, info@medfreshe.com  
Website : www.medfreshe.com

 MedFreshe | 
  MedFreshe  
 MedFreshe | 
  unisonnarulagroup

### Exports Divison:



**(Government Recognised Star Export House)**  
**An ISO 9001:2015 / ISO 13485:2016 Certified Company**  
UNG Tower, 2nd Floor, Building No. 2, Central Market,  
Punjabi Bagh West, New Delhi-110026, INDIA  
Phone : (+91-11) 4545 9999 (Hunting Line)  
E-mail : marketing@narulaexports.com  
Website : www.narulaexports.com

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 narulaexports | 
  unisonnarulagroup

Narula's are proud to be members of \_\_\_\_\_

