



We, Iserve Medisolutions Pvt.Itd are in the Hospital Sector from last one decade. We are considered to be one of the most prominent company in the Medical field. The main motto of our company is to provide ultimate comfort and solution to our clients all across the country. We have been trusted by many hospitals for our State of art technology. Our primary line of services are Medical Gas PipeLine System, Modular Operation Theater, CSSD, Hospital Planning and Designing. During the production of the products, the accurate dimension, durability and safety are duly considered.

We have a huge team of experienced and qualified professionals who work in tandem with each other for company's success. The team is aware of current market scenario and customer demand that helps them in attaining client with utmost satisfaction. They work in coordination with the patron and also ask for their feedback on the range. Further, our personnel are kept updated with the latest technology around the world. Above all, we run all our business process on ethical business policies that enable us in winning the valuable trust of the customers.

### Mission:

The mission of the company is to deliver quality products and prompt services in order to ascertain satisfaction of the clients.

### Vision:

Vision of the company is making the medical care accessible to all.





Integrity: We must conduct our business fairly, with honesty and transparency.

Everything we do must stand the test of public scrutiny.

Understanding: We must be caring, show respect, compassion and humanity for our

colleagues and customers around the world, and always work for the

benefit of the communities we serve.

Excellence: We must constantly strive to achieve the highest possible standards in our

day-to-day work and in the quality of the goods and services, we provide.

Unity: We must work cohesively with our colleagues across the group and with our

customers and partners around the world, building strong, relationships

based on tolerance, understanding and mutual cooperation.

Responsibility: We must be responsible and responsive to the countries, communities and

environments in which we work, always ensuring that what comes from the

people goes back to the people many times over.







### GOVERNMENT OF INDIA MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

### Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that ISERVE MEDISOLUTIONS PRIVATE LIMITED is incorporated on this Fourth day of September Two thousand seventeen under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares

The Corporate Identity Number of the company is U52609WB2017PTC222605.

The Permanent Account Number (PAN) of the company is AAECI6166L

Given under my hand at Manesar this Fourth day of September Two thousand seventeen .

DS MINISTRY OF CORPORATE AFFAIRS ST

Digital Signature Certificate
Mr MANGAL RAM MEENA
Deputy Registrar of Companies
For and on behalf of the Jurisdictional Registrar of Companies
Registrar of Companies
Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on www.mca.gov.in

Mailing Address as per record available in Registrar of Companies office:

ISERVE MEDISOLUTIONS PRIVATE LIMITED

Jote Shibrampur Green Park Kolkata- 700 141







Confirms that the Class 1 complies according to the directive 93/42/EEC Medical Council Directive

Certificate No.: CE-3573

### Manufacturer

Name : ISERVE MEDISOLUTIONS PVT. LTD.

Address : Jote Shibrampur, Green Park, Kolkata-700141, India

Products : Modular Operation Theatre, Medical Gas Pipeline

System and CSSD

### Complies with the requirements applicable to it

The manufacturer's technical documentation as required for Medical Council according to the directive 93/42/EEC has been reviewed and found to comply with the requirements for Class I Medical Devices Directive. Any significant changes in the design or construction of the product, not agreed upon by us, this declaration will lose its validity.

### This certificate is issued under the following conditions:

- 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 requested.
- 2. The certificate remains valid until the manufacturing conditions or the quality systems are not changed.
- 3. The certificate validity is conditioned by positive results of surveillance audits.
- 4. 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.ukcertifications.co.uk/verify

Date of this Certificate 23rd August 2018

1st Surveillance Audit Due 22rd August 2019

2nd Surveillance Audit Due 22rd August 2020

Certificate Expiry (subject to the company maintaining its 22rd August 2021

system to the required standard)

Authorised Signatory

This certificate is the property of UK Certification & Inspection Limited and shall be returned immediately on request.

71-75 Shelton Street, Covers Garden, London, WC2H 9JQ, United Kingdom
Website:- www.ukcertifications.co.uk, email:- info@ukcertifications.co.uk
Company No. 10517947



# **CERTIFICATE**

This is to Certify that the Quality Management System

### ISERVE MEDISOLUTIONS PVT. LTD.

JOTE SHIBRAMPUR, GREEN PARK, KOLKATA - 700141, WEST BENGAL, INDIA

Has been independently assessed and is compliant with the requirements of

ISO 9001:2015

This certificate is applicable to the following product or service ranges:

MODULAR OPERATION THEATRE, MEDICAL GAS PIPELINE SYSTEM, CSSD, HOSPITAL PLANNING & DESIGNING.

# ASSESSMENTS

:: Certificate No :: IN113324A

Date of initial registration 23 July 2018

Date of this certificate 23 July 2018

22 July 2019 Surveillance audit on or before

22 July 2021 Recertification Due / Certificate expiry

> This Certificate is property of LMS Certifications and remains valid subject to satisfactory surveillance audits.

Director



LMS Certifications Private Limited

1-Ananddham, Opp. Kukrail Picnic Spot Gate, Faridi Nagar, Lucknow - 226015, UP, (INDIA). e-mail:- info@lmsassessments.com,

Visit:- www.lmsassessments.com.



### **MODULAR OT**

Operation theatre is that specialized facility to the hospital where life saving or life improving procedures are carried out on the human body by invasive methods under strict aseptic condition in a controlled environment by specially trained personnel to promote healing and cure with maximum safety, comfort and ecomomy. It is imperative that maintenance and effective utilization driven and co-ordinated by needs, preferences and safety of the medical surgical team froms the basis of planning, starting and maintaining an operation theatre.

We at Iserve, has been doing OTs for years. We also do NABH certification of OT. Some of our OTs has been designed in such a way that it gives dual facility i.e., impeccable design with state of art facility.



- a. Dust and Bacteria free
- b. Operation Theater with anti-bacterial paint has minimum durability of 15 years
- c. Easy to pure steam cleaned, electro metric (ideal for high humidity areas)
- d. Seamless
- e. Accuracy of individual parts of system, easy to upgrade
- g. No sharp edges



### SOLID MINERAL SURFACE WALLS

Antibacterial Solid Mineral Surface

- Absolute flatness of the surfaces to facilitate cleaning and the achievement of conditions of aseptic hygiene
- Wide range of colours coordinated among the various material
- Joints between self-loading panels, manufactured in full height with no horizontal seams, offer a perfectly airtight sea



### STAINLESS STEEL WALLS

Powder coated antimicrobial paint

- Variety of design and pattern -any colour of the RAL palette
- High aesthetics (modern, light, prestigious) Attractive total investment cost 100% recyclable



### **GLASS WALLS**

Mineral-acrylic material is a solid, non-porous, homogeneous surfacing

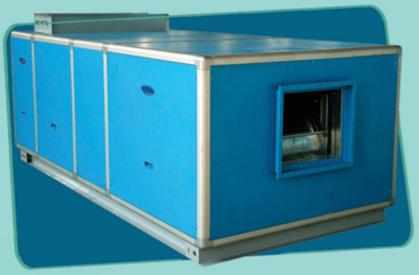
- Material composed of ±1/3 acrylic resin (also known as PolyMethyl, MethAcrylate or PMMA) and ±2/3 natural minerals
- The main mineral is Aluminium TriHydrate(ATH) derived from bauxite, an ore from which aluminium is produced



### **AHU**

An Air Handling Unit (AHU) is used to re-condition and circulate air as part of a heating, ventilating and air-conditioning system.

The basic function of the AHU is take in outside air, re-condition it and supply it as fresh air to a building. All exhaust air is removed, which creates an acceptable indoor air quality. Depending on the required temperature of the re-conditioned air, the fresh air is either heated by a recovery unit or heating coil, or cooled by a cooling coil. The optimized arrangement of Mechanical and dynamic-flow components ensure low speeds and internal pressure losses.





5000 CFM, Static pressure-120mmwg
Double Skin Outer Skin – 0.6 mm pre-coated GI,
Inner Skin – 0.6 mm plain AL
Thickness – 23+2 mm thick CFC free PUF injected
(Density: 40± 2 kg/ Cu. m.)
DX cooling coil
Tube Material – Copper
Tube Thickness – 0.3mm

### Turnkey Design & Supply of HVAC System includes:

- a. Air Handling unit
- b. Duct Work
- c. Duct Components
- d. Ultra clean ventilation canopy

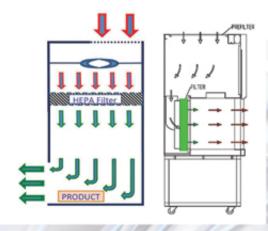




# Laminar Flow System

Flow is described as laminar when all the fluid (gas or liquid) flows in layers. It is turbulent when the fluid swirls and mixes across the diameter of the pipe.

Ensuring that flow stays laminar changes the relationship between flow and pressure, which Iserve uses to make our flow instruments highly accurate across a very wide turndown range.



Laminar (smooth flow) tends to occur at lower flow rates through smaller pipes. In essence, the fluid particles flow in cylinders. The outermost cylinder, touching the pipe wall, does not move due to viscosity. The next cylinder flows against the unmoving fluid cylinder, which exhibits less frictional "pull" than the pipe wall. This cylinder will move the slowest.

This continues, with the centermost cylinder having the greatest velocity. It is generally accepted that flow is laminar if the Reynolds Number is less than 2000.

### **DAMPERS**

PRD to be provided in OT room to prevent cross contamination of air from clean and dirty areas.

- Multi Bladed units, Specially designed control O.T Room air pressures a.
- It comprises of carbon steel housing with grade 304 b.
- Balancing is carried out utilizing a proven balance weight assembly c.
- Accurate to range of 1 pascal over their working range of 5-35 d.



### **SCRUB STATION**

- a. Stainless Steel/SMS Construction
- b. Removable by panels
- c. Available in one, two or three bay sizes
- d. Material S.S 304-18 SWG (Certified Material used) Matt finish
- c. 3 Bay 1500W X 1360H X400D
- d. Horizontal and vertical corners coved to 1/4" radius
- e. Radius Chamber
- f. Hot & Cool water arrangement are available (as per the demand)
- g. Infrared Sensor based automatic control timer
- h. Soap Dispenser, Digital Timer, Eyewash Options



### **PASS BOX**

- a. SS304 1mm matt finish Body, Dustproof, Size in mm 600x600x600
- b. Double Skin, opposite side opens able with transparent glass fixedin both sides
- c. Electromagnetic Strong Interlocking
- d. 100 ft. candles per sqft/optimum
- e. Light Fluorescent tubes
- f. UV Light



### CONTROL PANEL

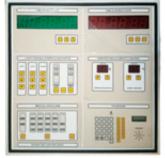
Surgeon Control Panel for the modular operation theater are provided on a membrane type and touch screen type, micro controller based electronic control panel which is mounted in the theater wall. The fascia is made with superior quality UV resistance membrane with sterilization feature. The control panel consist 7 Tiles. We can develop the product as per requirement of customer. These tiles as below. All high voltage equipment is installed in a separate enclosure The remote cabinet will house the operating lamp transformers, mains failure relays, electrical distribution equipment and circuit protection equipment for all circuits within the operating theater.

- a. Time Clock
- b. Elapsed Time Clock
- c. Temperature and Humidity Control and Display
- d. Lighting Control / Dimming
- e. Medical Gas Alarm Systems
- f. Hands Free Telephone
- g. Music control (Optional)

### X-RAY VIEW BOX

- a. Wall Mounted Flush Type Slim, durable and effective
- b. Energy efficient
- c. No UV emission
- d. Film active switch
- e. 12 step digital dimmer
- f. Long life, led life 100000 hours
- g. Viewing area 736mm x 440mm

### LED SURGICAL LIGHT





Operating lamp must be ceiling model LED surgical lights having Focusmatic property for room height 2.80m to 3.00 m.

• Made of aluminium and a module consisting of individual segments, it must be ideal for operating rooms with laminar flow systems.

The lamp yoke must have a controller with:

Lighting level adjustment

- Endoscopic mode
- Selection of temperature colour
- Focal electronic lighting level
- Battery indicator
- Cupola selection
- · On/off switch

The main arm and satellite arm must have the following property:

Light intensity for main arm 160,000 Lux

- Light intensity satellite arm 100,000 Lux
- Colour temperature in \*Kelvin 4500\*K
- Colour Rendering Index, CRI (Ra) >95
- LED life time >40000 h
- Feeding unit 100 to 240 V
- Frequency 50 / 60

# **OT DOORS**

Hermetically closing is 99.999986% air tight at pressure of 50 P.A.

- a. Self adjustment
- b. Opening speed
- c. Closing speed
- d. Hold open time
- e. Automatic activation delay
- f. Malfunction alerts



**HINGED DOORS** 



STAINLESS STEEL DOORS



**SLIDING DOORS** 



AUTOMATICALLY OPERATED DOORS

### **PENDANT**

Iserve Medisolutions, supplies & installs a complete range of clinical pendants /beams. These are ceiling mounted systems that provide simple and convenient access to multiple gas, electrical and data outlets at a safe height wherever they are needed.

### TYPES INCLUDE:

- a. Fully-flexible multi-movement pendants and beams are specifically designed for use in critical care and operating theatres
- b. Rigid and Retractable pendants are designed for Operating Theater, Anesthetic and Ancillary Rooms

### PENDANT ARMS TYPES:

- a. Single Arm
- b. Double Arms
- c. Multi Movement arms



The pendant arm system can be positioned correctly using just a small amount of hand strength. This can then be secured in position using pneumatic brakes. Cushioned end stops" prevent" hard impacts".



Medical gas supply systems in hospitals and other healthcare facilities are utilized to supply specialized gases and gas mixtures to various parts of the facility. The medical gases which are used in hospitals are life supporting element that gives direct influence in maintaining the life of PIPELINE SYSTEM a patient. Medical gas must be clean, highly pure and supplied under stable pressure.

Medical gas piping is needed for oxygen, nitrous oxide, medical air, nitrogen, carbon di oxide, vacuum and anesthesia waste exhaust. We have made hundreds of hospitals with medical piping facility. Some of them are government and some private. Having more than 12 years of experience in this field, we understand the technology better. We always adopt the new technology in the market.



- a. Instant gas availability
- b. Protection of sterile area from contamination caused by movements of cylinders
- c. Clean, safe and reliable delivery of gases
- d. Minimal accidents hazards due to mishandling of cylinders

### MEDICAL GAS MANIFOLDS

Gas manifolds are designed to supply the pipeline system with sufficient quantity of gas by cylinders and/or tanks. The typical manifold for medical gases (O2, N2O, CO2, or medical AIR) according to

EN ISO 7396-1 or HTM 02-01 consists normally of two-side cylinder supply with automatic change over between empty and full side, and additional third source for emergency supply. For oxygen usually the liquid source is being used as primary supply, while two-side cylinder supply is being used for reserve. Our manifolds enables very reliable function and offers for user variable advantages, for example:





### **AVAILABLE OPTIONS**

Capacity	50 m3/h 100 m3/h 180 m3/h		
Number of cylinders	1 – 48		
Display of status/alarm	Analogue by gauges, digital with central LCD		
Type of Gas	Oxygen, Nitrous Oxide, Carbon Dioxide, Air, Nitrogen, Helium		
Available standards	EN ISO 7396-1 or HTM 02-01		

### **MEDICAL GAS PLANTS**

Medical Gas Cylinder central Plant stations are installed to provide a reliable source of supply for the Oxygen, Nitrous Oxide & Medical Air requirements of hospitals. Principal details of these Plants are usually similar. The only difference is the number of cylinders which are used in the Plants. These pressured gases are used in Operation Theatres, Intensive Care Units, Baby Care Units, Emergency Rooms and Patient Rooms.

The gas is stored at high pressure in specifically made cylinders that are connected to the Central Plant Station.

### **VACCUM**

It provides a centralized source of vacuum, available in simplex to multi-pump configurations dependent on individual requirement, to include complete package plant or modular format.

- a. Long-Life, Low Level Noise
- b. Superior Pump Efficiency
- c. Easy to Service
- d. Advanced Safety Features
- e. Reliable Operation



### **AIR**

It provides a centralised source of medical air, available in simplex to multi-pump configurations dependant on individual requirement.

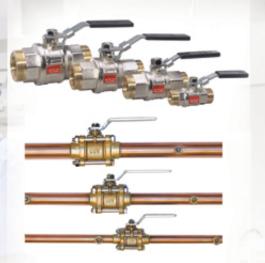
- a. Optimized pressure control
- b. Durable
- c. Easy to use
- d. Reliable, efficient
- e. High efficiency compressors



### **VALVE**

A valve is a device that regulates the flow of a fluid (gases, fluidized solids, slurries, or liquids) by opening, closing, or partially obstructing various passageways. Valves are technically pipe Fittings, but are usually discussed as a separate category.

We supply various types of valves for low as well as high pressure & flow ranges, with end fitting threading as per customers' requirement.



### MEDICAL GAS OUTLET

Designed to meet the strictest standards, all Iserve medical gas outlets comply to ISO/CE in respect to connection detail and performance. Our complete range includes the following:

- a. Oxygen Outlet
- b. Medical Air Outlet
- c. CO2 Outlet
- d. N2O outlet
- e. Vacuum outlet
- f. Nitrous Oxide self-sealing outlet
- g. Medical air self-sealing outlet
- h. Oxygen self-sealing outlet
- i. Vacuum self-sealing outlet



## MEDICAL GAS ISOLATION CONTROL VALVE BOXES

Iserve Isolating Valve Boxes are ideal for all modern medical applications. Designed to meet and exceed the strictest medical standards, our valve boxes can be customized for any facilities or requirement.

### Features:

- a. Additional Gas Valves or Gas Pipe Sizes can be specified (as required)
- b. All Valves are factory pressure tested on assembly
- c. Simple Cleaning & Serviceability Procedures
- d. Spare Parts available for replacement (if required)
- e. Pressure Gauges / Pressure Switches are able to be deleted (as required)
- f. Previous proven use & specified all over the country





# **CSSD**

As an integrated unit within hospitals and healthcare facilities, the CSSD performs sterilization and other related actions on medical consumables, equipment, and devices.

These items will then be used where aseptic procedures are performed — such as in the operating theater, in wound stitching, and in the surgical, pediatric, and maternity wards. We have designed and planned CCSD for various clients. We know the techniques and specifications. The CSSD or Sterile Processing Department was created to efficiently manage the sterilization process, which used to be done in the individual departments where they will be used. Throughout the different institutions, the role of the CSSD remains the same.

- a. Patients are safe from infection
- b. Protects from contamination
- c. Bacteriological safe sterilization
- d. Elimination of unsound practices & establishment of standard procedures
- Assurance of adequate supply of sterile products immediately and constantly available for some time as well as emergency use
- f. Less Expensive

### **MAJOR AREAS OF CSSD**

### **DECONTAMINATION**

Decontaminating used surgical instruments and other medical devices

Organizing cleanitems and packaging them into appropriate instrument trays and sets

### **ASSEMBLY**

Organizing clean items and packaging them into appropriate instrument trays and sets

# STERILIZATION AND STORAGE

Sterilizing the assembled trays of instruments

Keeping detailed records of items that have been cleaned, sterilized, and store

### DISTRIBUTION

Stocking crash carts

Delivering sterile supplies where they are needed and picking up dirty one



### **STERILIZATION:**

Sterilization is the process of freeing any articles from living microorganisms including Bacteria, Fungi, Virus etc. This Process is carried out through sterilizers.

### TYPES:

- Heat Sterilization
   a. Dry Heat Sterilization b. Steam Sterilization
- 2. ETO (Ethylene Oxide Sterilization)
- 3. Chemical Sterilization
- 4. Radiation Sterilization (Gamma)



**Dry Heat Sterilization** 



Steam Sterilization



ETO (Ethylene Oxide Sterilization)



Chemical Sterilization



Radiation Sterilization (Gamma)

### **INSTRUMENT WASHING AND DISINFECTOR**

A wide range of washer/disinfectors for use in hospitals (and CSSD) to disinfect surgical instruments, anesthesia and respiratory products, hospital utensils, glassware, containers, operating shoes and other devices that require high-level disinfection.

- a. Provide safety for patients and staff by controlling and preventing contact with contaminated devices
- b. Reprocess medical devices that require high level disinfection
- c. Reduce the number of micro-organisms present on the devices



### HOSPITAL PLANNING AND DESIGNING

A hospital and other health facilities shall be planned and designed to observe appropriate architectural practices, to meet prescribed functional programs, and to conform to applicable codes as part of normal professional practice. Planning is the forecasting and organizing the activities required to achieve the desired goals. All successful hospitals, without exception, are built on a triad of good planning, good designing & construction & good administration. To be successful, a hospital requires a great deal of preliminary study and planning. A strong management is essential for the daily functioning of a facility & this must be included in the plans of new hospitals. Classification is given below.



- 1. Private
- 2. Partnership
- 3. Private Trust(Family)
- 4. Public charitable Trust
- 5. Cooperative Society
- 6. Private Limited Company
- 7. Public Limited Company

It must be designed to serve people in first place. We, Iserve has been doing this for years and have a team to do so. Our team compromises of Mechanical, IT and Biomedical engineers. We guide our clients step by step to achieve the desired goals.

- a. Provides better outcomes
- b. Makes maintenance easy
- c. Save time and money
- d. Minimal accidental hazards due to proper planning

# OUR ESTEEMED CLIENT

Savera Hospital, Patna	MGM Hospital, Kankarbagh	Pragati Surgical Service, Bangalore	K.K Hospital, Purnea
Ashwini Rural Medical College, Hospital & Research Centre, Solapur	Paras HMRI Hospital	Rabindranath Tagore International Institute of Cardiac Sciences, Kolkata	Raigang Jeevanrekha Diagnostic Centre Pvt. Ltd, West Bengal
J.M. Institute and Hospital, Muzzafarpur	K.D.K.M Hospital, Muzzfarpur	Amrit Maternity and Child Hospital, Muzzafarpur	Ford Hospital and Research Center, Patna
Medizone Hospital	Siddaharth Multispeciality	Rahman Hospitals	Iswar Hospital,
Pvt. Ltd, Patna	Hospital, Patna	Pvt. Ltd, Guwhati	Begusarai
Glocal Healthcare,	Glocal Healthcare,	Glocal Healthcare,	Glocal Healthcare,
Behrampur	Bolpur	Krishnagar	Begusarai
Glocal Healthcare,	Glocal Healthcare,	Glocal Healthcare,	Glocal Healthcare,
Jeypore Orissa	Amro	Muzzafarpur	Bhagalpur
Glocal Healthcare,	Glocal Healthcare,	Glocal Healthcare,	Glocal Healthcare,
Mednipur	Malda	Bakura	Birbhum
Shri Sai Hospital, Ranchi	Shiva Sishu Hospital, Patna	Anup Institute of Orthopaedics and Research Rehabilation Center, Patna	Joyti Group, Nepal



 Registered Office : Jote Shibrampur Green Park, Kolkata-700141 Branch Office : Patna

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