



**FLUID SYSTEM INTERNATIONAL PRIVATE LIMITED**  
Premium Brands Premium Services

*Excellence in Pumps Application Engineering, Allied Fluid Technologies and Renewable / Alternate Energy Solutions*

# Company Profile



Oil & Gas Industry



Power Generation Industry



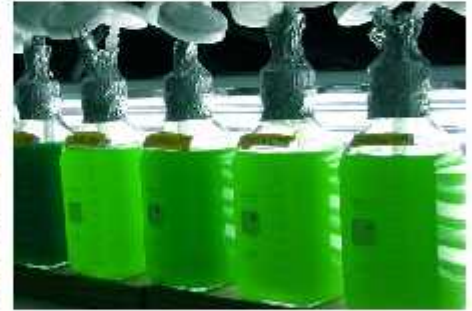
Fertilizer & Chemical Industry



Food & Beverages Industry



Automobile Industry



Bio-fuel Industry

Fluid System International Private Limited, known as FS IPL, is a professionally organized engineering, industrial marketing & sales and technical services company, specializing in the field of "Pumps Application Engineering, Allied Fluid Technologies, Renewable and Alternative Energies", which delivers the State-of-the-Art technological advancement to the customer's doorstep. The company draws its strength and pride from its 40 years of benchmark performance excellence in the relevant engineering and business fields, a rich and proven heritage in technology and an unparalleled customer care track record. The company is registered with the Pakistan Engineering Council and practices a Quality Management System which continuously upgrades and ensure the quality and efficacy of its product lines, technical services and business processes. These milestone achievements are attributed to the continued confidence, satisfaction and support of our valued Customers, Employees, Partners, world renowned Overseas Principals and other Stake Holders, for which the company's management is truly grateful.

The company now emerges as one of the strong market players with a new strategic vision which is supported with advanced engineering & research based cutting edge technologies and industrial marketing initiatives in action. The company offers innovative and customized solutions, using State-of-the-Art technologies which further strengthens its corporate image and market position in satisfying the growing needs and expectations of its customers in a challenging and vibrant business environments. The company continues to remain as strong and trusted distributors of their world renowned ISO-9001 certified Principals ITT-Goulds USA & Xylem USA, the global leaders and manufacturers of a comprehensive product range and customized system solutions for "Pumps and Allied Fluid Technologies" and equipment built to internationally approved standards.

ITT- Goulds is a diversified and leading manufacturer and provider of highly engineered customized technology solutions for the Process Pumps & Allied Equipment, built to API-610 & ANSI B73.1 and other equivalent international standards designed to meet the demanding needs of main process application in the oil refineries & gas purification plants, crude & refined petroleum product pipelines, chemical & petrochemical industries, fertilizer plants & power stations and other Hi-Tech industrial applications.

Likewise, Xylem being a world leader in water technologies augments the company's capability and distinctly strengthens its market position by providing proven equipment and engineering services for water & waste water, fire-fighting, HVAC and pressure boosting applications with a broad portfolio of products that addresses the full cycle of water from collection, distribution, consumption and safe return to the environment. Lowara, Flygt, Bell & Gossett and AC-Fire Pumps premium brands are integrally covered under the global umbrella of Xylem.

With a network of sales offices, service workshops, an up to date pump testing facility, a warehouse and above all, a strong team of talented and experienced human resource, FS IPL is a trusted name with a history of time tested and proven relationship with valued customers and international channel partners, now for over four decades.

Based upon its unparalleled performance, the company continues to enjoy a distinct market reputation in the diversified private and public sector clientele covering Residential & Commercial Buildings, General Industry, Utilities, Oil & Gas, Energy & Power, Fertilizer, Chemical & Petrochemical, Textile, Cement, Sugar, Paper & Pulp Industries, Fire Fighting & HVAC segments and offers pumps and allied equipment of leading international brands under the ITT-Goulds & Xylem umbrellas for a wide range of pumping applications for these sectors. Leveraging on a vital



cutting edge metallurgical innovations, 304, 316, 316L, Duplex & Super Duplex Stainless Steels continues to remain as the company's main material of construction for pump components. Other metallurgical choices and a variety of exotic material combinations are also available on request to with stand the severity and aggressive nature of process fluids used in critical process applications.

The company conducts a regular market research to identify the emerging needs of the markets and its customers. As a result, the company has diversified and enhanced its product range by including turnkey system solutions for "Renewable and Alternative Energies" and offers alternative and economic choices of energies to its domestic, commercial and industrial sector clientele.

With a qualified and a professionally trained team of foreign and local experts, talented engineers, marketing and sales professionals and certified service supervisors & technicians, possessing an in depth product and business processes know-how, the company's highly dedicated human resource is available for deployment at a short notice to analyze and satisfy customer requirements by presenting technically and commercially sound and economically attractive solutions for new project requirements and to also trouble shoot pump application engineering problems at existing sites.

The company is committed to serve its customer with a strong focus on the provision of "Energy Efficient Solutions" for diversified range of pumping applications. The company's business proposals are based on sound engineering practices

combined with the globally recognized and widely practiced concept of "Life Cycle Costing" (LCC). Besides product's salient features, other benefits offered by the company includes, low operating cost, compact engineering design, customized solutions, high operational reliability, service-friendly, wide performance range, laser welded technology, open and closed impellers, protection against dry running of pumps, overloading & overheating of electric motors and prime movers and choices of automatic & manual operations of equipment best suited for the given set of operating conditions. Besides, the company is also providing comprehensive services and backup spares for all range of product offered. The pumps and allied equipment are comprehensively covered under genuine warranty and product guarantee against any manufacturing or workmanship defect.

For the benefit and use of the customers, the technical literature and data covered in this catalogue depicts a broad range of product portfolio with characteristic range of operating parameters. The company encourages and will be too happy to receive customers inquiries to work out and present compatible engineering solutions which best meets the technical needs of the intended applications.

At customer's convenience, the company is also willing and will always be delighted to depute an expert engineer to visit the client's design offices or installation sites to study and analyze their needs in detail and offer the best possible choice of energy efficient system solutions to match the project specific needs.

Industrial Process (IP) Division	Residential & Commercial Division (RCW)	Water & Waste Water (WWW) Division
 <p data-bbox="165 1537 486 1569">Mining &amp; Mineral Industry</p>	 <p data-bbox="699 1537 895 1569">Textile Industry</p>	 <p data-bbox="1150 1537 1385 1569">Chemical Industry</p>
 <p data-bbox="185 1948 467 1979">Paper &amp; Pulp Industry</p>	 <p data-bbox="694 1948 900 1979">Hygienic Valves</p>	 <p data-bbox="1145 1948 1385 1979">Fire Safety Pumps</p>



# Lowara Pumps

## Engineered for Life



Lowara is committed to studying, developing, manufacturing and distributing pumps and pumping systems for water technology applications. Founded in 1968 and based in Montecchio Maggiore, near Vicenza in Italy, Lowara has been serving customers and users of hydraulic pumps in various sectors over 40 years.

Lowara pumps are made in fabricated stainless steel, which keeps the water free of contamination. The laser welding technology creates pumps that are resistant to aggressive chemicals and guarantees that the production process respects the natural environment. Advanced pump control and regulation systems ensure the safe, reliable and economic use of water.

Lowara offers a complete range of pumps for commercial, agriculture and industrial applications. For building service, Lowara produces pumps for pressurization, conditioning, HVAC fire-fighting systems, lifting stations and dewatering. For irrigation bore hole, Lowara produces pumps for agriculture applications, irrigation of gardens and parks. For industrial applications, Lowara is committed on drinking water process, on water treatment, industrial washing equipment and machine tool cooling, boiler, reverse osmosis, condensate, feed, caustic soda, diesel oil & light chemical.

### e-SV / e-HM MULTISTAGE VERTICAL & HORIZONTAL PUMPS

**Discharge:** Up to 160 m<sup>3</sup>/hr **Head:** Up to 330 m  
**Material:** Stainless Steel AISI 304 & 316 L

#### Features:

- Low NPSH
- High Efficiency
- Low Maintenance
- High Reliability
- Liquid Temperature up to 180°C
- VFD compatible IE3 motor

#### Application:

- Pressure Boosting • Water Transfer
- Saline Water • Brackish Water • Pharmaceutical
- Light Chemicals • HVAC • Food & Beverages
- Water Treatment • Water Filtration • Jockey
- Reverse Osmosis • Diesel transfer • Brine Water etc.



### TLC /FLC /LNS/LNE/LNEE VERTICAL IN-LINE PUMP FOR HOT/COLD WATER CIRCULATION

**Discharge:** Up to 900 m<sup>3</sup>/hr **Head:** Up to 95 m  
**Material:** Cast Iron, Bronze and Stainless Steel.

#### Features:

- High Performance
- Low Maintenance
- High Reliability
- High Durability
- Liquid Temperature up to 140°C

#### Application:

- HVAC • Hot & Cold Water circulation • Water supply
- Pressure boosting in commercial buildings
- Irrigation systems and Water transfer etc.



### e-SHE/S/F/O OPEN & CLOSED IMPELLER SS 316L PUMPS

**Discharge:** Up to 240 m<sup>3</sup>/hr **Head:** Up to 110 m  
**Material:** Stainless Steel AISI 316 L

#### Features:

- Open & Closed Impeller
- High Efficiency
- Low Maintenance
- High Reliability
- Liquid Temperature up to 120°C

#### Application:

- Clean Water • Saline Water • Brackish Water • HVAC
- Light Chemicals • Water Treatment • Pharmaceutical
- Food & Beverages • Reverse osmosis etc.



### GV & GHV VFD OPERATED BOOSTERS SETS

**Discharge:** Up to 640 m<sup>3</sup>/hr **Head:** Up to 160 m  
**Material:** Stainless Steel AISI 304 & 316L

#### Features:

- High Efficiency
- Low Maintenance
- High Reliability
- Energy Saving
- Liquid temperature up to 120°C
- VFD compatible IE3 motor.

#### Application:

Pressure Boosting for Commercial Buildings and Industrial processes.





Lowara pumps are manufactured in AISI 304 / AISI 316L fabricated stainless steel, Duplex/Super Duplex steel and various grades of Cast Iron that covers many applications from water to some chemical compositions. This innovation confirms Lowara to be utilizing top class material to achieve excellence and guaranteed performances.

**Z SERIES SUBMERSIBLE BOREHOLE PUMPS WITH 4", 6", 8", 10" & 12" OUTER DIAMETER**

**Discharge:** Up to 520 m<sup>3</sup>/hr **Head:** Up to 700 m  
**Material:** Stainless Steel AISI 304, 316L and Duplex Steel

**Features:**

- High Reliability • Robust But Light Weight
- High Corrosion Resistance
- Low Power Consumption
- High Efficiency • Low Maintenance

**Application:**

- Clean Water • Sea Water • Irrigation
- Dewatering • Firefighting • Mining
- Water Supply From Deep Wells
- Water Distribution • Pressure Boosting



**CO & CEA OPEN AND CLOSED IMPELLER HORIZONTAL END SUCTION PUMPS**

**Discharge:** Up to 54 m<sup>3</sup>/hr **Head:** Up to 31 m  
**Material:** Stainless Steel AISI 304 & AISI 316 L

**Features:**

- High Efficiency
- Low Maintenance
- High Reliability
- Solid Particle Handling up to 20mm
- Liquid Temperature up to 110°C

**Application:**

- Clean Water • Grey Water • Diesel
- Saline Water • Brackish Water • Light Chemicals



**DOMO/ DIWA/DOC/DL/DN SUBMERSIBLE WASTE WATER OPEN IMPELLER & GRINDER PUMPS**

**Discharge:** Up to 42 m<sup>3</sup>/hr **Head:** Up to 22 m  
**Material:** Stainless Steel AISI 304 & Cast Iron

**Features:**

- Solid Particle Handling Up To 50mm,
- Open/Vortex / Channel Impeller
- Auto Level Switch
- Low Maintenance
- High Reliability
- Liquid Temperature up to 50°C

**Application:**

- Sump Water • Grey Water • Rain Water
- Drainage & Sewerage etc.



**MP, MPA, MPB, MPV & PVa MULTISTAGE VERTICAL / HORIZONTAL DESIGN PUMPS**

**Discharge:** Up to 11000 m<sup>3</sup>/hr **Head:** Up to 500 m  
**Material:** Cast Iron, Ductile Iron, Bronze, Stainless Steel AISI 316, Duplex Steel & Super Duplex Steel.

**Features:**

- High Efficiency
- Low NPSH
- High Reliability
- Reduced Wear
- Vertical & Horizontal Construction
- Liquid Temperature up to 140°C

**Application:**

- Pressure Boosting • Clean Water • Saline Water
- Brackish Water • Sea Water • Light Chemicals
- HVAC • Water Treatment • Water Filtration
- Food & Beverages • Pharmaceutical • Irrigation
- Firefighting • Boiler feed • Condensate
- Reverse Osmosis • Ultra filtration • Mining etc.



**e-NSCE/S/F/C PUMPS**

**Discharge:** Up to 1800 m<sup>3</sup>/hr **Head:** Up to 160 m  
**Material:** Cast Iron, Ductile Iron, Bronze, SS 316L and Duplex Steel.

**Features:**

- High Efficiency
- High Reliability
- Extended Shaft
- Stubbed Shaft
- Flexible Coupling
- Spacer Coupling
- Liquid temperature up to 140°C
- VFD compatible IE3 motor

**Application:**

- HVAC • Water Transfer • Water Boosting
- Sea Water Pumping • Fire Fighting etc.



# Creating innovative solutions to meet our world's water needs.

Developing new technologies that will improve the way water is consumed, conserved, and re-used in the future is central to our work.



Flygt, a brand of Xylem, is synonymous with engineering excellence, reliability and closeness to customers. Flygt is a world-leader in the design and manufacture of dry and submersible pumps, mixers and related intelligent controls systems. Under the Flygt banner, customers have access to a complete range of products and solutions for moving water, wastewater, and advanced monitoring and control equipment to optimize their use. Product development and manufacturing of Flygt products is based in Sweden.

Flygt offers extensive application know-how that results in superior solutions with enhanced pump-station performance and functionality. Our experience and expertise is second to none among manufacturers. Combined with our broad offering of tough, premium products, we can deliver customized solutions that ensure trouble-free and energy-efficient operation for customers.



## PUMPING

Flygt is the originator of the reliable, energy-efficient electrical submersible pump. We have been manufacturing high-quality pumps since 1901, and continue to provide our expertise, support, and the highest quality products available.



## MIXING

Flygt has over 50 years of mixing experience with hands-on knowledge of various applications and design to support you. We pioneered the use of thrust as the main performance parameter.



## DEWATERING

State-of-the-Art technology, durable materials, and few components ensure that Flygt dewatering pumps deliver highly reliable performance at the lowest possible cost of ownership.

### FLYGT SUBMERSIBLE PUMPS, MIXERS & JET AERATORS

**Discharge:** Up to 12,000 m<sup>3</sup>/hr **Head:** Up to 80m

**Material:** Cast Iron, Stainless Steel AISI 304, Stainless Steel AISI 316L and Duplex Steel

**Features:** High Efficiency, Low maintenance, High Reliability, Robust, Flexibility to customize, Energy Efficient, Corrosion resistance pumps designed to minimize clogging and equipped with Standard and explosion proof electric motors and VFDs.



## The Most Complete Line of Hydronic Heating and Plumbing Products.

Service and support from the most trusted name in the industry. The Bell & Gossett name has always stood for uncompromising quality and dependability.

Bell and Gossett is the world leader in energy efficient pumps for the Heating, Ventilating and Air Conditioning HVAC industry. Masterfully engineered pumps for low shut off head, durability and ease of service. Pump accessories include Triple Duty Valves and Suction Diffusers. Typical applications include HVAC systems, plumbing, general service, industrial applications, refrigeration and cooling towers.

### CIRCULATORS ecocirc® SERIES

e3 circulators are energy efficient circulators using permanent magnet, ECM (electronically commutated motor) technology. The e3 circulators are designed specifically for potable water applications. These circulators are lead free\* and come with a variety of options including a temperature sensor, various body styles, assembled with electrical cord and plug.



### END SUCTION PUMP Series e-1510

- Base Mounted End Suction Pumps
- **Flow GPM:** Range 0 to 4950
- **Head ft:** Range 0 to 534
- **Pump Design:** Base-Mounted, End Suction, Flox-Coupled.



### IN-LINE PUMP

#### Series e-80 Close Coupled In Line Centrifugal Pumps

- **Flow GPM:** Range 0 to 8800
- **Head ft:** Range 0 to 450
- **Pump Design:** Close-Coupled, In-Line.



### Split Case Pumps VSX Series Double Suction Vertical Split Case Pump

- Up to 28,000 GPM.
- Up to 525 feet.
- Up to 18" sizes.
- Available in Cast Iron casing and Bronze Impeller.
- Motor upto 2000HP



### HSCS Series Large Double Suction Horizontal Split Case Pump

- Up to 12,500 GPM
- Up to 600 feet
- Available in Cast Iron casing and Bronze Impeller.
- Up to 14" sizes.
- Motor upto 1000HP



### Line-Shaft Turbine Pumps

- Pump Design: Vertical Turbine
- Capacities up to 10,000 GPM with heads to 150 feet per stage.





# ITT

ENGINEERED FOR LIFE

ITT Engineered Valves is a leading global supplier with 60 years of experience in the development, design, manufacture, installation and automation of a variety of valve types.

Engineered Valves innovations in gas, fluid, solids and slurry flow control valves are essential to the operation of many critical service industries. Product offering includes diaphragm, ball, plastic lined, safety shut-off, knife gate, slurry, slide gate, wedge gate, butterfly, recycle/reject and actuated valves. Markets served include Chemical, Power Generation, Nuclear, Mining, Oil Sands, Pulp & Paper, Water Treatment, Pollution Control, Food & Beverage, Process and General Industries.

## DIA-FLO®

Dia-Flo diaphragm valves are engineered for the tough work environments of chemical processing, water treatment, pollution control, food & beverage, mining, pharmaceutical, pulp & paper and power generation markets.



## FABRI-VALVE®

Knife Gate, Slide Gate, and Wedge Gate Valves. Fabri-Valve is a proven performer for application specific and general purpose valves in the mining, power, pulp and paper, waste water, chemical, petroleum and marine markets.



## SKOTCH®

Skotch burner safety shut-off valves for oil- and gas fired systems combine the functions of three valves into one for increased safety, reliability and reduced installation complexity and cost.



## CAM-TITE®

Cam-Tite utilizes a unique non-spherical ball design to reduce inherent standard ball design limitations. Intended uses include demanding hazardous and corrosive environments within the chemical processing, nuclear and power generation markets.



## CAM-LINE®

The Cam-Line trunnion mount non-spherical ball design offers all Plastic-Lined wetted features with the benefits of the unique cam action. With special linings and optional PVDF coatings Cam-line is ideal for highly corrosive applications in chemical processing industries.





# Automation

Fluid System engineering department is engaged in designing and manufacturing of a comprehensive assortment of Control Panel Boards, Control Panels (switchgears), Automatic Panels, Home Automation, Bus Ducts and MS Panel Cabinets & MS Boxes.

Fluid System engineering department is engaged in designing and manufacturing of a comprehensive assortment of Control Panel Boards, Control Panels (switchgears), Automatic Panels, Home Automation, Bus Ducts and MS Panel Cabinets & MS Boxes. The offered products are manufactured using the best grade components and other allied material with the aid of sophisticated technology in compliance with defined industry standards.

## MOTOR CONTROL UNIT/CENTRE [MCU/MCC]

- HVAC pumps systems
- Industry process pumps
- Submersible pumps
- Water boosting system
- Regulated speed water booster
- Pressure pumps
- Diesel engine driven pumps
- Waste water treatment plants
- Rain /river irrigation system
- Auto irrigation (sprinkler) system
- Transfer pumps with ultra-sonic lev.
- Fire water booster

## IRRIGATION & FIRE WATER BOOSTER CONTROLS FOR DIESEL ENGINE DRIVER PUMPS

- Relay Logic control panel
- Micro controller based programmable

## CONTROL PANEL FOR WATER BOOSTING SYSTEM

- Fixed speed controlled by pressure switch
- Fixed speed controlled by Microcontroller and Pressure transmitter
- Variable Speed water Booster

## HYDROVAR®

The intelligent and user friendly speed controller for pumps! HYDROVAR is a pump or wall-mounted variable speed, microprocessor based system controller, and was the world's first of its type to manage motor speed and match pump performance to a range of hot and cold water applications.



## PUMPSMART®

Intelligent VFD with patented software that enhances control prevents pump failure, and reduces energy and maintenance costs.



## PRO SMART®

Continuous predictive condition monitoring for rotating equipment.



The most widely recognized and respected brand in the global pump industry.



Whether it's for severe corrosives, abrasive slurries, fibrous / stringy solids, high temperature liquids, hazardous fluids, low flow or high capacity services – Goulds Pumps has a perfect, reliable solution. Our selection of fluid solutions includes horizontal and vertical configurations in a range of alloy and non-metallic constructions, sealed and sealless. Goulds Pumps' wide range of products ensures that we have the right pump for virtually every application.

## POWER GENERATION



A wide variety of pumps designed specifically for uses within this industry. The Model 3600, the most modern axially split multistage pump in the world, is ideally suited for boiler feed service. Vertical turbine and double

suction pumps can handle the most demanding condensate or circulating water needs. Sumps can be cleared with Goulds Pumps' line of vertical or submersible sump pumps. Heavy duty slurry pumps like the XHD, SRL and 5500 are specially designed for flue gas scrubbers and ash handling services.

## OIL REFINING AND GAS PROCESSING



Goulds offer a full range of API 610 pumps to meet your demanding applications: BB1 axially-split, between-bearing pumps, BB2 between bearing radially split pumps, BB3 multistage axially split pumps, BB5 barrel multistage radially split pumps and overhung OH2/OH3 process pumps. Vertical turbine pumps are available in any configuration including pumps for low NPSH, fire pumps and submersibles. Design and manufacturing capabilities include standard commercial grades, ASME Section VIII and API-610 for total line capability.

## CHEMICAL



The family of chemical process pumps includes both ANSI and ISO models. Goulds Pumps specializes in high alloys for our chemical pumps ranging from 316SS to Zirconium and other special alloys as requested. Unique non-metallic pumps offer distinct advantages when handling severe corrosives. Magnetic drive pumps are designed for services where leakage cannot be tolerated.



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Engineered Valves innovations in gas, fluid, solids and slurry flow control valves are essential to the operation of many critical service industries. Product offering includes diaphragm, ball, plastic lined, safety shut-off, knife gate, slurry, slide gate, wedge gate, butterfly, recycle/reject and actuated valves. Markets served include Chemical, Power Generation, Nuclear, Mining, Oil Sands, Pulp & Paper, Water Treatment, Pollution Control, Food & Beverage, Process and General Industries.

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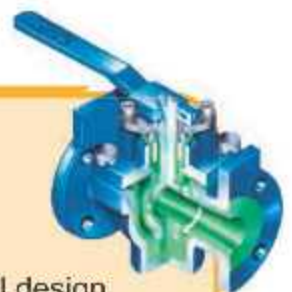
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ITT Goulds Pumps is among the most widely recognized and respected brands in the global pump industry, serving customers in the oil and gas, mining, power generation, chemical, pulp and paper and general industrial markets. As the only manufacturer to make digital monitoring standard on every process pump.

### PULP AND PAPER



Goulds Pumps' leadership in the pulp & paper industry has been largely due to the success of our comprehensive range of pumps that stand up to the harsh operating requirements of this industry. The Model 3175 has been prized for performance since its introduction in 1968. Our latest 3180/3185 paper stock/ process pump line extends the offering for users with a preference for a metric pump.

### WATER AND WASTE WATER



We offer the most comprehensive line of double suction, end suction, multistage and vertical turbine pumps for chemical feed, water supply, booster, low lift, and high lift. For non-clog solids handling, a range of horizontal, vertical sump, and submersible pumps have helped professional engineers solve pollution problems around the world.

### MINING AND MINERALS



Goulds Pumps' dominance in the mining industry dates back to the late 1800s. Designed for the most severe applications, our pumps can be found in coal, aluminum, copper, iron clay, phosphato, potash, soda ash, salt, gold and aggregate industries throughout the world.

### FOOD AND BEVERAGE



Adhering to strict process requirements is only one of the reasons for Goulds Pumps' entry into the forefront of these industries. Goulds Pumps handle a wide variety of grain processing, water, wastes, bio-fuels, corrosives and erosives.

### PRIMARY METALS



The wide range of products makes Goulds Pumps the ideal choice for the demanding services of this industry. We provide pumps for vertical and submersible abrasives handling, slurry pumps for scale pits, chemical pumps for pickle liquor and leaching solutions, vertical turbines, double suction pumps for cooling tower and dewatering applications, and pumps for waste acid, scrubber service, and quench.





## FSIPL - Pump Testing Facility

The company owns and operates an upgraded "State-of-the-Art" Pump Testing Facility which is installed with in its Karachi workshop. This pump testing facility is equipped with all necessary hardware and precision measuring instruments including a digital flow meter with tight engineering tolerances to ensure the quality and accuracy of the test results.

The pump testing facility has been designed to measure a full range of centrifugal pump hydraulic performance characteristics from the shut-off point to the end of the pump curve covering a wide range of flow capacities of up to 2000 gpm, a discharge pressure range of up to 20 bars and the corresponding absorbed pump shaft power.

Depending upon the customer's specific requirements, the centrifugal pumps supplied by the company are performance tested on customer's requirement to validate the guaranteed rated duty point parameters against a payment of nominal testing charges. The pump testing facility is yet another a distinct feature and a differentiating edge of the company over its competitors. It provides a technical edge to the company which further enhances its market position & customers trust in dealing with the company for all testing requirements related to "Pumps Application Engineering & Allied Fluid Technologies".



The customers are encouraged and welcomed to take advantage of this facility to certify the performance test results of their ordered pumping equipment.





## Renewable And Alternative Energies



Upholding its decades long of unprecedented commitment of bringing technological innovations to the customer's doorstep, the Fluid System International Private Limited (FSIPL) now presents the State-of-the-Art, Solar Energy System Solutions designed and sized to match the energy needs of residential, commercial, agricultural and industrial sectors. The company is eager to happily join hands with the communities and industries to develop, build and promote a prosperous and an environment friendly Greener Pakistan.

As the country remains confronted with the perpetual challenges of sky rocketing energy costs and scarcity of conventional power, the renewable and alternative energies continue to remain as attractive options for consumers to achieve self-reliance in securing this essential life necessity. Being one of the nature's most precious gifts to the mankind, the solar energy is thankfully a free commodity and an abundance of sun shine in Pakistan makes the Solar Energy Systems as economically viable and practically sustainable options best suited and aimed to achieve the goal of self-reliance in energy.

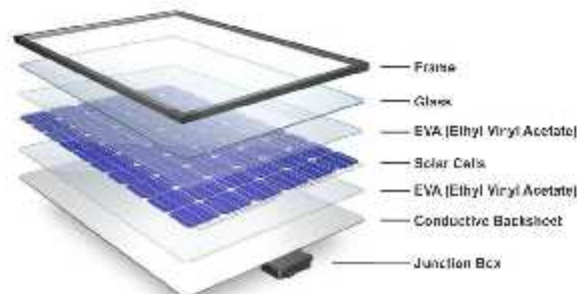
The Solar Energy System Solutions offered by the company are based on superior engineering designs supported with proven quality & product reliability which reflects sustainable field performance, unique power output characteristics and attractive returns to the consumers. Globally sourced from world renowned manufacturers, the high quality, field tested and proven solar components are professionally integrated through local field experts to build and install customized system solutions to match the specific power needs of each application. The company offered Solar Energy Systems are backed by genuine product warranty over the entire project life cycle.

The offered Solar Energy Systems are widely deployed and are being successfully used in the public and private sectors for Solar Powered Tube Well Systems, Off Grid Solar Systems, Grid Type Solar Systems, Residential Solar Powered Systems, Industrial Systems, Hospitals & Schools, Telecommunication & Signaling, Village Electrification, Street Lighting, Banking Industry, Data Centers and many more applications.





## Renewable And Alternative Energies



Photovoltaic Module Structure



Inverters

The distinct and competitive advantages of Solar Energy Systems are presented below for the consumers awareness and to help them make well informed choices and decisions.

- For on grid systems, the Net-Metering billing mechanism credits the solar energy system owners for the surplus electricity exported to the national grid. This recurring source of income is a lucrative revenue option to the owners of the on grid systems which is available over the entire life cycle of the system.
- Reliable data and statistics confirms that the upfront initial investment in solar energy system is paid up within a short period of 3 to 4 years. Depending upon the size and installed power capacity of the solar energy system, up to 75% of the consumers utility bills can be off set or may be completely paid off.
- As the solar energy is fortunately free of cost and is available in abundance, once the initial installation cost of the system is paid up, the benefits continue to be accrued over the system life cycle through the elimination / substantial reduction of utility bills.
- Solar energy is a completely clean and non-polluting entity with no carbon emission hazards, does not reflect any health or safety issues and virtually poses no danger to the environment.
- With a proven technology, ease of installation and low maintenance cost, the durability and operational reliability of solar energy systems are well established and recognized worldwide.
- Solar panels are typically offered with a manufacturer's warranty period of up to twenty years.



**FLUID SYSTEM INTERNATIONAL PRIVATE LIMITED**  
Premium Brands Premium Services

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**Branch Sales Office:**

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Tel: +92 42 3523 9043 Email: [lahore@fsipl.com](mailto:lahore@fsipl.com)