



FBL Industries (Pvt) Ltd.

A Company of FBL Group

OUR COLLABORATIONS



WUXI JIENENG BOILERS CO., LTD, CHINA.

One of Leading Boiler Manufacturer



CHANGZHOU WINKEN INDUSTRIAL SERVICES LTD, CHINA.

Import and export corporation limited



HAMMER INDUSTRIES USA.

Tubes, Pipes and Equipment Manufacturers



QINGDAO SHINGLY BOILERS, CHINA.

High Quality Boiler Manufacturer



SHANDONG SINOPAK IMP. & EXP. CO., CHINA.

Industrial Boiler Spare Parts



ECOSTAR COMBUSTION SYSTEM, TURKEY.

European Standard Burner Manufacturer



LAPAR CONTROL VALVES.

European Valve Manufacturer



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25+ Years of Expertise, Devotion and Dedication
25+ Years of Energy Conservation.
25+ Years of Customer Satisfaction.

ABOUT US

FBL Group is at the forefront as a provider of Green Energy solutions for boilers fueled by alternative sources. Our team includes a diverse group of leaders, engineers, technicians, and field staff working nationwide. We unite to build a forward-thinking, varied, and prosperous business centered on pleasing our customers and achieving excellence. With over 20 years of experience in the boiler industry, we provide an extensive range of boilers, steam turbines, and equipment for industrial and boiler room. We are particularly proud of our high-quality products, services, and unparalleled aftersales support.

FBL Group stands as one of the biggest suppliers and producers of full-fledged steam boiler systems, thermal oil heating units, steam turbines, and integrated systems in Pakistan. Our company has been involved in the design, production, and engineering support for steam boilers and thermal oil heaters that use coal or biomass as fuel, as well as hybrid water tube and fire tube steam boilers. Furthermore, It also produces accessories for boiler rooms and offers unmatched after-market products and services to ensure a complete installation and operation for clients.

ENGINEERING SOLUTIONS WE PROVIDE

- Industrial steam boilers, Thermal oil heaters,
- Power Generation Solution
- Hot water generators, Steam generators.
- Fuel conversion of Industrial steam/Hot water boilers & oil heaters
- Modification and up gradation of existing boiler system.
- Boilers, Oil heaters and steam generators complete maintenance services.
- Boilers & Oil heaters auxiliary equipment and spare parts.
- Boiler automation and burner management system
- Pressure vessels, Storage tanks, Condensate tanks, Heat exchanger.
- All type of Industrial equipment valves, Pumps, Tubes, Pipes and Fittings.

COO Message

FBL culture represents its mission, values, ethics and most importantly, our people. We are a strong and diverse team of professional with a shared purpose to support local and international Industry. FBL is not just about boilers or burners, but also about a group of people sharing common values to accomplish the mission, pursue, and achieve the vision.

FBL deeply appreciates the unwavering support and interest of our customers. We at FBL will strive for customer satisfaction, as we strongly believe that customer satisfaction is the company's mission. Since its establishment in 1998, FBL has installed and commissioned numerous projects which are monumental in the history of boiler. These include, among others, installed & commissioned boilers on 25 different kind of fuel including all kind of solid (Wood, Wood Chip, Rice Husk, Coal Lumps, Coal crushed etc.) and other conventional fuels (Natural Gas, Heavy Furnace oil and Diesel fuels).



It was the support of customers that made the company what it is today and we at FBL hope that customers will continue to provide such generous support and encouragement. FBL will strive not only to meet the expectations of our customers through enhancing quality and technology, but also to fulfill its corporate social responsibilities.

Based on FBL people-oriented management philosophy, FBL will do its utmost to present customers with a better future.

A handwritten signature in black ink, appearing to read 'Shahzad Hader Ch.'.

Shahzad Hader Ch.

COO & Director
FBL Group Pakistan

Mission Statement

FBL is passionate to lead the industry by installing and developing innovative boiler room technology, systems and as a facilitator of green energy solutions with boilers powered by alternative fuels that continue to lead the market in safety, reliability, efficiency and sustainability.

We collaborate with our customers to provide the best products and services and are dedicated to delivering boiler solutions with the lowest total cost of ownership. We strongly believe that customer satisfaction is the company's mission.

Our Vision

To be the leading provider of energy generation solutions and services worldwide, delivering actionable insights that improve customer outcomes

Our Values

Integrity

We stand behind our product and services, Treat our Customer, Employees, Vendors and other business partners with respect and dignity

Commitment

Committed to Work Hard, in help industry with latest technology in cost effective ways.

Responsiveness

Work with Intention, Purpose and sense of urgency and responsibility

Candour

Encourage open and honest communication at every level in all direction. Seek genuine feedback from customer. This will help us understand better about our product and services.

Performance

Honor the Commitment to the customer and each other. Collaborate with Customer to offer them best product, services and solution. Utilize data for better understand plant requirements.



FBL TIMELINE:

FOUNDATIONS

Foundations of FBL Group were laid by Founder Mr. Yasir Ilyas Ch, starting with a small supply business with a vision to become a global manufacturer and supplier.

FIRST BOILER ORDER

FBL GROUP won bid for first Gas Fired Boiler Imported and installed by FBL.

JV WITH KENSYS

FBL GROUP Joint Venture with KENSYS as Engineering & Design Consultant

FIRST COAL BOILER SUPPLY

FBL Imported and installed its first chain grate coal fired steam boiler in Bright Textile, Lahore.

1998

2000

2002

2005

2008

2010

2011

WORKSHOP FACILITY

FBL GROUP expanded its business from supply to services and manufacturing by induction of local workshop facility.

FIRST HYBRID BOILER

FBL won the Contract to Design Fabricate and install First locally manufactured Hybrid boiler.

SOLE DISTRIBUTION OF WUXI JIENENG

FBL became sole distributor of WUXI JIENENG HEATING FURNACE CO, LTD. one of the largest producers of coal fired steam boiler in china.

CONVERSION OF BOILER ON 10 FUELS

FBL successfully converted a 50 Ton Per Hour Boiler of Garib Sons Karachi to Run on 10 Fuels.

KARACHI OFFICE

FBL Group started a regional office in Karachi to facilitate customers in Karachi and Sindh.

FAISALABAD OFFICE

FBL Group started a regional office in Faisalabad to facilitate and provide best services in the region.

Waste Heat Recovery Boiler in Bahrain

FBL group supplied and installed a triplex WHRB steam boiler in Bahrain Jenbacher JGS 620, 420 & 320 Gas engines.

2013

2014

2015

2016

2017

2018

2020

25 TPH COAL FIRED BOILER

FBL Group installed a 25 TPH coal fired steam boiler in Kot Addu Power company (KAPCO).

550 Projects Completed

FBL Group Complete 550 Nos Projects for Projects like Coal, Biomass, Gas & Oil-fired Steam Boilers, Thermal Oil Heaters, WHRB Conversions and Up-gradations etc.

SOLE DISTRIBUTIONSHIP OF ECOSTAR BURNERS

FBL was given sole distribution ship for Ecostar Burner Turkey. An EU standard Burner Manufacturer.

FAISALABAD WORKSHOP

To Accommodate our customer in Faisalabad region we established a state of the art workshop facility in Faisalabad.

3 MW POWER PLANT

FBL was awarded with 3MW Coal Fired power plant in Sunfiber Pvt. Ltd. Faisalabad this project is under installation.

Present (1000+ Projects Successfully Completed)

FBL Group Completed 1000+ Nos of Projects like Coal, Biomass, Gas & Oil-fired Steam Boilers, Thermal Oil Heaters, Conversions, Waste Heat Recovery Steam Boilers and Up-gradations & Maintenance etc. FBL Group one of the largest suppliers and service provider for boilers in Pakistan.

2021

2022

2023

2024

BIOMASS CONVERSION OF COAL BOILER

FBL Successfully converted chain grate coal fired boiler to cheaper biomass fuel without any reduction in efficiency of boiler this was a trend setting conversion of boiler with many to follow.

COAL FIRED STEAM BOILERS:

FBL Group provides wide range of coal fired steam boilers; which are the indispensable equipment in the production process of major enterprises. Energy and Steam produced from coal fired steam boilers is cheaper and more affordable than any other energy sources.

FBL Group designed coal fired boilers with its Chinese principles, which performs reliably, environment friendly and highly efficient on Pakistani coal containing 4% Sulphur contents same as on imported coal. Our company provides coal boilers with superior wear resistance, a spacious furnace, and a low-velocity design. By incorporating wear-proof tube technology, erosive abrasion is minimized. These boilers are specifically designed to prolong combustion time to ensure complete coal burnout.

Boiler Type:

- Chain Grate Traveling
- Reciprocating Grate Fired
- Bubbling Fluidized bed
- Circulating Fluidized Bed
- Tilting Grate Bed
- Bulk Coal Fired
- Fixed Bed.

Capacity:

- 02 TPH – 65 TPH.

Fuel:

- Bituminous & Sub Bituminous Coal.
- Coal Size: 0 – 50 MM
- For Best Results: 05 – 12 MM
- Net Calorific Value: 4500 – 6300 Kcal/KG.
- Sulphur Content: Less than
- 1% (Preferred) (Design on upto 04% Sulphur).

Key Features:

- Fuel Cost Saving.
- Easy Maintenance.
- Wear resistance.
- Larger furnaces.
- Suitable for Pakistani Coal As well.
- High Thermal Efficient Design.



BIOMASS FIRED STEAM BOILERS:

FBL offers a broad selection of highly effective biomass-powered steam boilers. This biomass fuel is derived from natural substances like rice husk, logs, wood chips, bagasse, and wood pallets. Biomass boilers are quite comparable to traditional gas boilers, but instead of utilizing gas or oil burners to generate heat, they use sustainable fuel for combustion.

Boiler Type:

- Chain Grate Traveling
- Reciprocating Grate Fired
- Bubbling Fluidized bed
- Circulating Fluidized Bed
- Tilting Grate Bed
- Bulk Coal Fired
- Fixed Bed.

Capacity:

- 02 TPH UP TO 65 TPH.

Fuel:

- Rice Husk, Corn Cob,
- Wheat Straw, Rice Straw
- Wood Chips and Wood Pallets
- Sugar Cane Leaves & Trash
- Bio Mass Pellets, Cotton Stacks

Key Features:

- Fuel Cost Saving.
- High Thermal Efficient Design.
- Wear resistance.
- Larger furnaces.
- Easy Maintenance.



STEAM GENERATOR:

FBL Group Imports, designs, manufactures & installs highly efficient and reliable steam generators that are safe and cost-effective. We have an extensive experience in building large industrial and commercial Steam Generators. Our steam generators are perfectly suited to fulfill the specific needs of customers across a wide array of uses. Thanks to our proficiency in steam generators and boilers, we can guarantee superior quality, exceptional operational dependability, and an extended lifespan. Operating a steam generator is simpler than managing a full-size industrial boiler.

Steam Generator Types:

- Horizontal Steam Generator
- Vertical Steam Generator
- Hot Oil-Fired Steam Generator

Fuel:

- Natural gas
- Light oil
- Heavy oil
- Multi fuels

Capacity:

- 500 KG. / HR.
- UPTO 6000 KG. / HR.

Key Features:

- Highly Efficient.
- Quick Startup.
- Rapid Steam Generation.
- Minimal Maintenance.
- Lower Operational Cost.
- Less Operational Manpower.
- Compact Design.
- Fully Automatic.



WASTE HEAT RECOVERY STEAM BOILERS:

FBL Group offers comprehensive solutions for Waste Heat Recovery Boilers, which are designed to capture and utilize the heat produced from various industrial processes. These boilers are capable of converting this waste heat into usable thermal steam, contributing to industrial efficiency, energy conservation, and environmental preservation.

FBL Group's Waste Heat Recovery Boilers (WHRB) are state-of-the-art, fully integrated industrial boilers. They are equipped with cutting-edge technology and precise monitoring systems to achieve the highest level of heat recovery. These boilers are proven to be safe and dependable, ensuring reliable performance in various industrial applications.

WHR Steam Boiler Types:

- Smoke Tube Waste Heat Steam Boiler
- Simplex, duplex, triplex or More
- (As Per Customer Requirement)

Key Features:

- Reduced Pollution.
- Waste Reduction.
- Highly Efficient.
- Increased Plant Efficiency.
- Reduced Production Cost.
- Resource Conservation.
- Maintenance Free.

Fuel:

- Waste flue Gases from oil Heater, Engines, turbines etc.

Capacity:

- 0.5 TPH. UPTO 10 TPH.



FUEL CONVERSION OF BOILERS / OIL HEATERS:

FBL Group offers complete solutions and services for conversion of existing oil gas fired steam boilers and thermal oil heaters to coal firing system via chain grate travel mechanism & reciprocating grates. Converting an existing system to coal / Biomass fired are a more cost-effective, more efficient and time saving as compared with installing a new boiler. With extensive years of engineering experience, we offer best possible solutions for conversions of existing firing systems of steam boilers and oil heaters to alternative cheaper fuels

Equipments:

- Steam Boiler Conversion
- Oil Heater Conversion

Fuel:

- Coal
- Biomass
- Natural gas
- Light oil
- Heavy oil
- Multi fuels

Fuel Conversion Types:

- Chain Grate
- Step Grate
- Fixed Bed
- Dumping Grate

Capacity:

- 01 TPH to 50 TPH for boilers
- 01 MKCal to 12 Mkal for Oil Heaters





HOT WATER GENERATOR:

FBL Group offers hot water generators fired by extensive range of fuels. Hot water generators are available in both solid fuel firing as well as LDO / Gas / Dual Fuel firing variants so that you get the advantage of economically available fuels. Hot water generator is a well-organized and lucrative way to generate hot water instantly. It is designed exclusively for the hot water requirements at process industries, Hotels, Hospitals, Resorts Swimming pools, Dairies & Laundries etc. FBL offered Hot water Generator are Energy Efficiently automatic, maintenance free, Large furnace volume, high radiant heat transfer area & high convective heat transfer area ensures long life of Hot Water Generators, Efficient Heat Transfer with optimum combustion.

Hot Water Generator Types:

- Vertical Hot Water Generator.
- Horizontal Hot water Generator.

Capacity:

- 50,000 KCAL TO 2,000,000 KCAL

Fuel:

- Natural gas
- Light oil
- Heavy oil
- Multi fuels

Key Features:

- Highly Efficient.
- Maintenance Free.
- Quick Startup.
- Lower Operational Costs



HYBRID TYPE STEAM BOILER:

FBL Designed Hybrid Solid fuel fired boiler consist of two parts, water-tube and fire-tube type boilers in a single united body. Primary furnace as water-tube boiler mounted on combustion chamber. Fire tube type boiler and flame radiation type water tube boiler are connected to each other by means of water collector. High-volume combustion chamber for burning solid fuels, to achieve maximum level of efficiency. Flame-flue type boiler is the two-pass type and designed so that the smoke passages appropriate velocity. Due to the sufficient smoke passage in the boiler very large portion of produced heat remains in the boiler, and used for the efficient & sudden production of steam.

Key Features:

- Multi Fuel Options for Biomass,
- Natural Gas & Heavy / Light Oil As well.
- Immediate switching between Fuels without loss of down time.
- Quick Startup.
- Minimal Maintenance
- Lower Operational Costs

Fuel:

- Coal
- Various Biomass
- Biomass & Gas/Light Oil/
- Heavy Oil

Capacity:

- 01 TPH. UPTO 08 TPH.

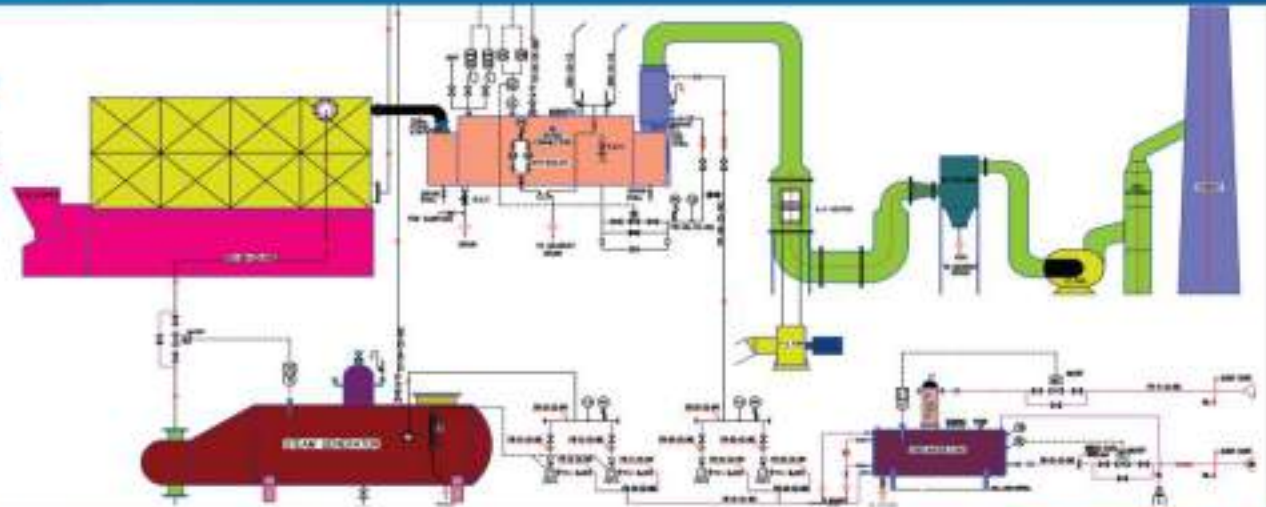
COMBO SYSTEMS OIL HEATERS:

FBL provides 3 in 1 Combo Systems, which are ideal for customers seeking steam for their facilities without the need for a large-scale boiler investment. This package includes a thermal oil heater, an industrial steam generator, and a waste heat recovery steam boiler, delivering an unmatched level of efficiency compared to other alternatives. The heated oil flows through the system's internal tubes to produce steam. As a result, this solution is expected to lead to significant reductions in operational expenses, particularly in contrast to the costs associated with operating a boiler, which often necessitates the presence of a licensed operator. FBL GROUP is also able to provide services for both new and upgraded combo systems.

Combo System Equipment:

This Combo System consists of following equipment's:

- Coal Fired Thermal Oil Heater
- Waste Heat Recovery Boiler
- Quick Steam Generator
- Waste Heat Hot Water Economizer



THERMAL OIL HEATER:

FBL Industrial Services specializes in the importation and installation of highly efficient Thermal Oil Heaters. This type of heater uses heat conduction oil as the heat carrier, The heated oil is then transferred to the user equipment before returning to the heating furnace for reheating. Operating at low pressure (1.0 MPa) and high temperature (350°C), the Oil Heater is both safe and energy-efficient, offering improved productivity compared to traditional steam boilers.

Oil Heater Types:

- Horizontal Oil Heaters
- Vertical Oil Heaters
- Traveling Chain Grate
- Reciprocating Grate
- Fixed Bed
- Oil & Gas Fired

Key Features:

- Highly Efficient.
- Installation Flexibility
- Minimal Maintenance
- Lower Operational Costs
- Less Operational Manpower.
- Compact Design.
- Fully Automatic.

Fuel:

- Coal
- Biomass
- Natural gas
- Light oil
- Heavy oil
- Multi fuels

Capacity:

- 0.5 MKCAL UP TO 20 MKCAL





GAS & OIL-FIRED STEAM BOILERS:

FBL Group provides premium-grade gas and oil-burning steam boilers known as package boilers. These boilers are made up of a durable, enclosed boiler that uses internal combustion to reach high heat transfer rates, making them more efficient than other boiler types. The boilers from FBL Group use they are designed for extensive standardization, these boilers are known for their high efficiency. They also offer a system that enhances efficiency through multiple stages for better heat transfer, and they are easy to maintain, making them cost-effective and convenient to manage.

Boiler Types:

- Wet Back
- Dry Back.
- Fire Tube.
- Water Tube.

Key Features:

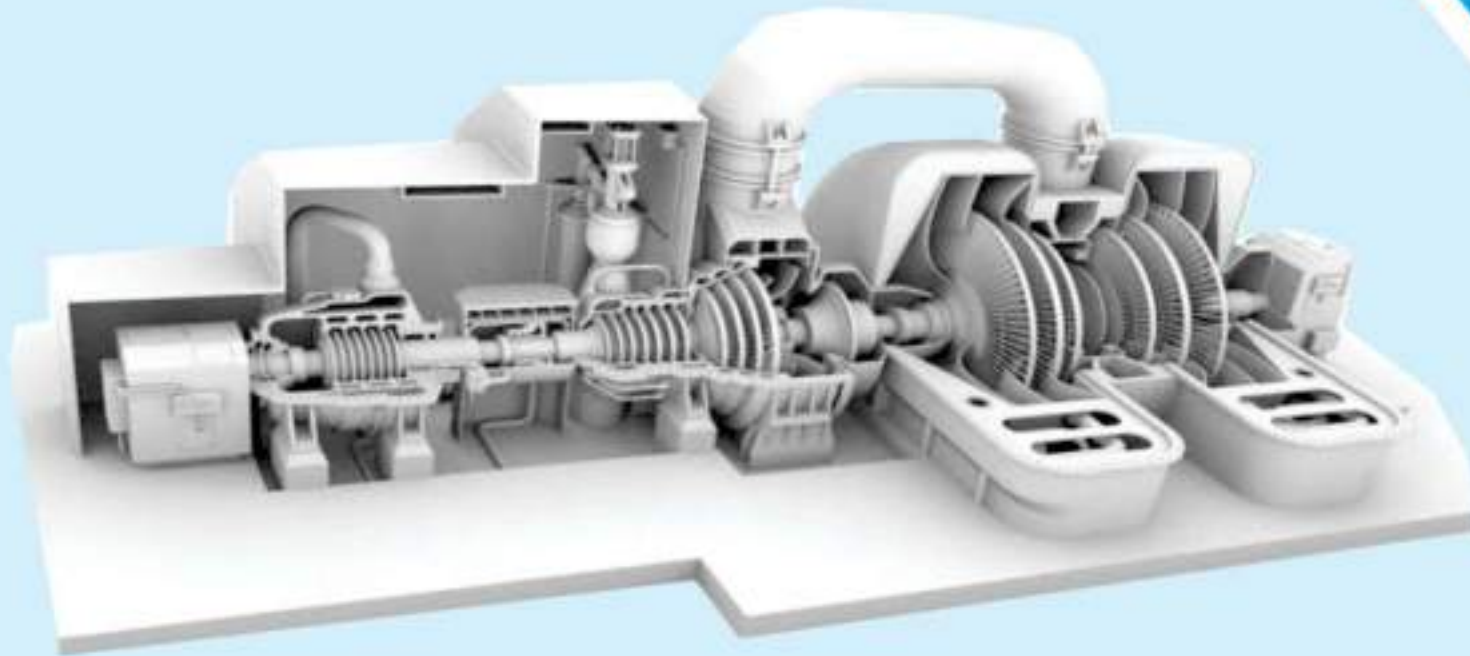
- Highly Efficient.
- Inexpensive Maintenance.
- Easy Installation
- Less Operational Manpower.
- Compact Design.
- Fully Automatic.

Fuel:

- Natural gas
- Light oil
- Heavy oil
- Dual fuels

Capacity:

- 02 TPH UP TO 45 TPH.



POWER DIVISION

Steam Turbine

POWER PLANTS

A complete solution for coal/biomass powered steam power plants offering a cost effective production of electricity.

Steam Turbines We Offer:

We at FBL Industries Pvt. Ltd. offer complete steam power generation solution including steam turbine, their accessories and its steam boilers. Some of the turbines solutions offered but not limited to as under.

- **Extraction Condensing Steam Turbines**
- **Full Condensing Steam Turbines**
- **Back Pressure Steam Turbines**

AFFORDABLE SOLUTION FOR ENERGY CRISIS

Project Completion in Optimal Time
Attractive payback period
Tailored Solution to Flexible
fulfill energy needs & process relevant
Economic installation and operation
Flexibility for complex, industrial processes



AFTER SALES SERVICES:

FBL extensive team of service engineers are fully qualified and trained to respond to any service needs related to your boiler house. our dedicated services, tailored to suit the needs of your system during which our highly skilled and specialist engineers, using state of the art equipment, make whatever adjustments may be necessary and as quickly as possible. FBL provides services not only for their own supplied boilers and oil heaters but also for all other famous brands

- Hassle free one stop solution for all boiler problems.
- High equipment uptime or increased availability.
- Quick & correct solutions to the identified problems.
- Optimum & consistent equipment performance & availability.
- Detailed & scientific analysis of major capital equipment.
- Develops program for planned replacement of boiler parts & minimize production loss.
- Improved reliability and longer service life.
- High competency level of operating staff.
- Safe & reliable equipment operation.
- Time and Cost saving.

Operation and Maintenance:

FBL offers a comprehensive range of both operation preventive / corrective maintenance services designed to take our own extensive experience and tailor it to our customers' specific needs. The focus of our activities is securing the continual operation of customers installation with minimum downtime, in a joint effort with our valued customers for the best results. For both schedule maintenance shutdown and unscheduled emergency breakdowns.



AUTOMATION CONTROL SYSTEM FOR BOILER AND OIL HEATER:

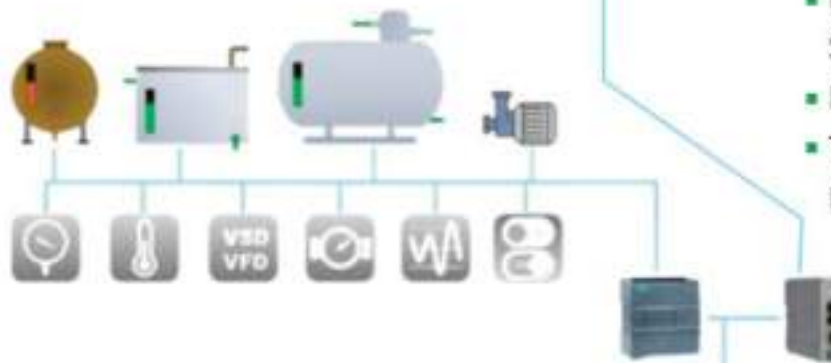
Monitoring and controlling a boiler's operation is one of the best ways to prevent system downtime and avoid major repair costs. The Automation Division at FBL Group offers comprehensive solution to its customers for their automation and control needs at an economical cost - effective, time bound and in a professional manner.

The division is managed by a highly experienced professional with a team of experienced engineers. Our engineers are well trained at our principal's factory for installation, commissioning and troubleshooting.

The automation process helps the company having to reduce the amount of errors that occur, reduction in the human resources, increased efficiency, and most importantly very cost effective.

Critical Control Parameters In Boiler

- Level Control Steam Drum level, De-aerator level
- Pressure Control Force draft pressure, induced draft pressure, Steam drum pressure, Deaerator pressure, balanced draft pressure
- Flow Control Air flow, Steam flow, Water flow.
- Temperature Control Deaerator temperature, Steam drum temperature, Furnace temperature, steam temperature, Flue gas temperature.



ENVIRONMENT PROTECTION EQUIPMENT:

“We Have A Solution, to reduce Flue Emission”

FBL is engaged in the development of energy conservation and environment protection equipment, providing consumers by cost effective products and professional quality service.

The EPA warns that residuals from burning solid fuel are one of the largest types of industrial waste generated globally, FBL offers solutions & services to control emissions when Boilers/Oil heaters burn fuel to generate steam or hot oil.

MULTI CYCLONE DUST COLLECTOR:

Multi cyclones are used to separate solid particles, known as particulate matter, from the gases in which they are entrained. It is having multiple parallel cyclonic tubes inside the chamber which separates the heavy dust particles from the air stream using.

Equipment Features:

- Reliable Operations.
- Low maintenance.
- No combustible filters.
- Very high separation efficiency.
- Low Installation Cost.
- Robust & Compact Design.
- Wide Range of Applications.

Technical Specifications:

- Capacity: 3200 – 80000 m³/hr.
- Casing: MS Material with ceramic lining.
- Flue gas inlet & outlet pipes make: Ceramic.
- Filtering efficiency: 90 ~ 95 %.
- Resistance: 81 ~ 92 mm H₂O.
- Ring Lemann Black: 0 ~ 1.
- Input amount of smoke: 10-16 m/s.



Electrostatic Precipitator Filters & Bag Filters:

A bag filter is air pollution control equipment that helps in controlling the levels of hazardous pollutants including Sulphur Dioxide. A bag filter is one of the most efficient, reliable equipment for flue gas filtration process. An electrostatic precipitator (ESP) is a filtration device that removes fine particles, like dust and smoke, from a flowing gas using the force of an induced electrostatic charge minimally impeding the flow of gases through the unit.

Equipment Features:

- Low installation Space
- Remove fine particulate and mists.
- Minimum Maintenance
- Compact Single Unit System
- Sulphur And Corrosive Gasses Removal

Technical Specifications:

- Inlet Temperature: < 220 °C
- Inlet Dust Density: < 180 g/Nm³
- Body Air Leakage Rate: < 2 %
- Running Resistance: 1500 Pa
- Bag Material: High Temperature FMS
- Bag Cage Material: Organosilicon



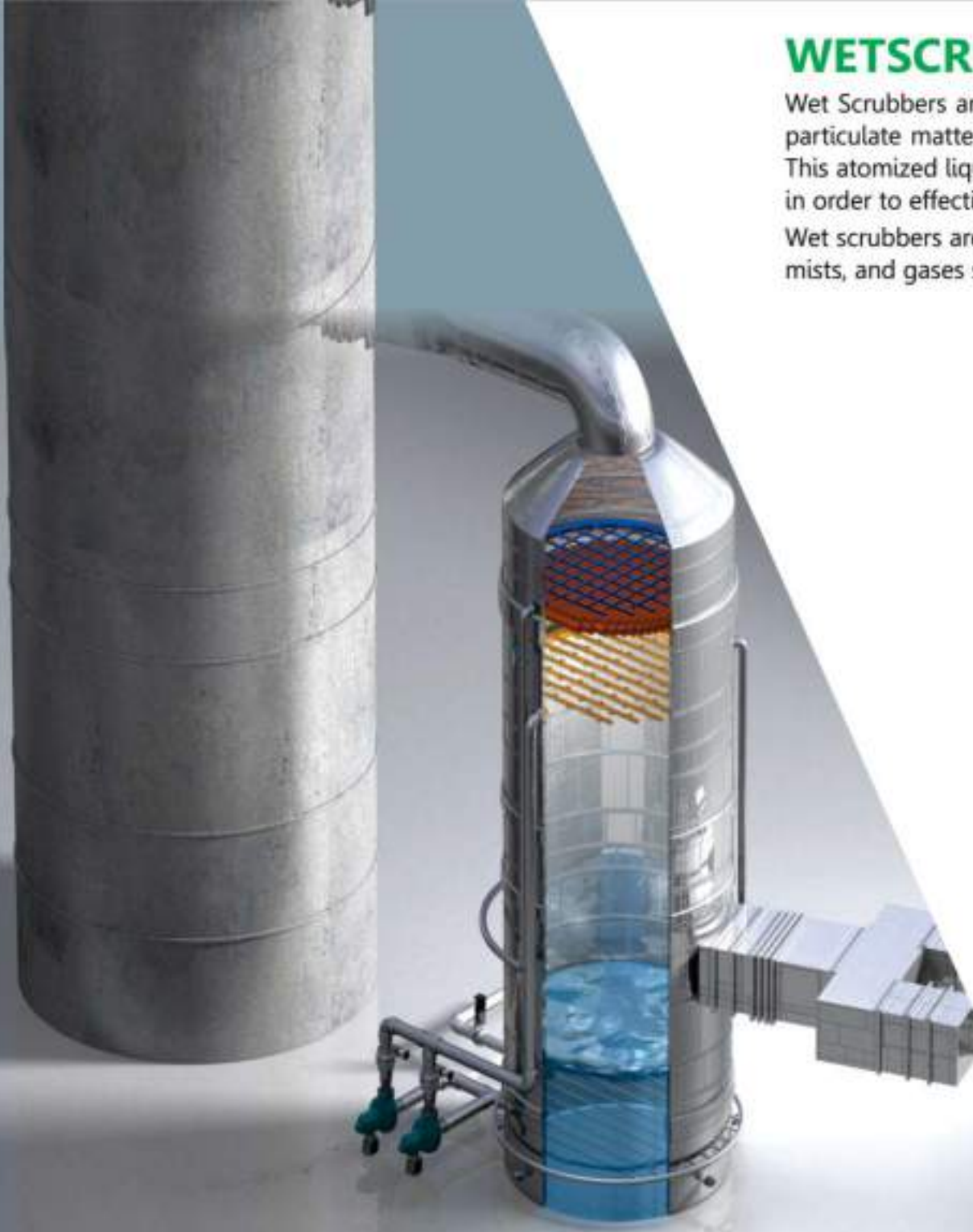
WETSCRUBBER/ GAS WASHING UNIT:

Wet Scrubbers are air pollution control devices that use liquid to remove particulate matter or gases from an industrial exhaust or flue gas stream. This atomized liquid (typically water) entrains particles and pollutant gases in order to effectively wash them out of the gas flow.

Wet scrubbers are very multidisciplinary, with the ability to remove solids, mists, and gases simultaneously while also providing cooling.

Technical Specifications:

- Equipment resistance: 9001~200Pa
- Temperature range: 300 °C
- Inlet velocity: 10~16m/s
- Input of smoke: 16 ~ 20m/s
- Amount of rising smoke in drops: 3.5 ~ 5.5 m/s
- Cleaned smoke temperature: 50 ~ 85 °C
- Design dust removal efficiency: 85 – 90 %
(Varies from size of dust content in flue gas)
- Design sulfur removal efficiency: 70%
(Depends sulfur content in flue & pH value)
- Output Amount of smoke: 18 ~ 22 m/s



ENERGY SAVING & EFFICIENCY IMPROVEMENT EQUIPMENT:

Energy is power; don't waste, just save it!

FBL GROUP offers equipment and solutions for efficiency improvements in Industrial boilers & oil heaters, Boilers need to be operated efficiently to achieve higher steam generation efficiency to sustain production and competitiveness in the market economy. FBL makes every effort to achieve relatively higher benchmark efficiencies by equipping boilers & Oil heaters with a set of efficiency improvement systems.

AIR PRE-HEATERS:

The air preheaters are employed to recover the heat from the flue gases and this heat is utilized to increase the temperature of air before it supplies to the furnace also reducing the emission flue temperature. The portion of the heat that otherwise would pass up the chimney to waste. Our Air preheaters are designed in both 1 and 2 passes for both flue gases and air to extract maximum heat from the flue gases.

Advantages Of Air Pre-heater:

- Absorption of maximum waste heat from flue gases
- Low payback time
- Proper combustion of lower quality fuels
- Reduced unburnt fuel particles result in high combustion efficiency.
- Air preheaters increase the efficiency of the steam boiler by 2% to 3%.
- Enhanced stability by using hot air.
- High heat transfer rate and low heat transfer area.



ECONOMIZER

Boiler economizers reuse exhausted flue gas to pre-heat the feed water entering the boiler. Economizers improve boiler performance while increasing fuel efficiency. By rapidly increasing feed water temperature through captured flue gas, economizers also provide a significant improvement in steam generation and response time..

Advantages of Economizer

- Provides uniform fin-to-tube contact for maximum heat transfer.
- Fin tubing offers more heat exchange surface than of bare tubing.
- Increase efficiency of the steam boiler up to 5%.
- Reduced Emission temperatures.
- Reduced Fuel Consumption.



BOILER SPARE PARTS:

We provide spare parts for every type of industrial boiler, Oil heaters, Steam Generators, Chain grate systems etc. In addition, we provide a bespoke parts service for a whole range of items to our customer's exact specification. We at FBL GROUP help you address the challenge of short term parts supply by pre-determining a list of essential spare parts and recommended spares holding, suited to each of our customer's operational and maintenance needs. FBL GROUP provides complete line of boiler peripherals and auxiliary equipment. Some of these includes:

BOILER SPARE PARTS:



■ Boiler Furnace Flue ■ Feed Water & Thermal Oil Pump, ■ Boiler Mounting Fittings, ■ Boiler Refractory, ■ Insulation & Cladding

CHAIN GRATE SPARE PARTS:



■ Chain Grate Segments ■ Chain Grate Hoppers ■ Ash Conveyors ■ Gear Drives

VALVES:



■ Butterfly Valves ■ Globe Valves ■ Ball Valves ■ Safety Valves ■ Gate Valves ■ Control Valves ■ Pneumatic Valves ■ Flanges

TUBES, PIPES & FITTINGS:



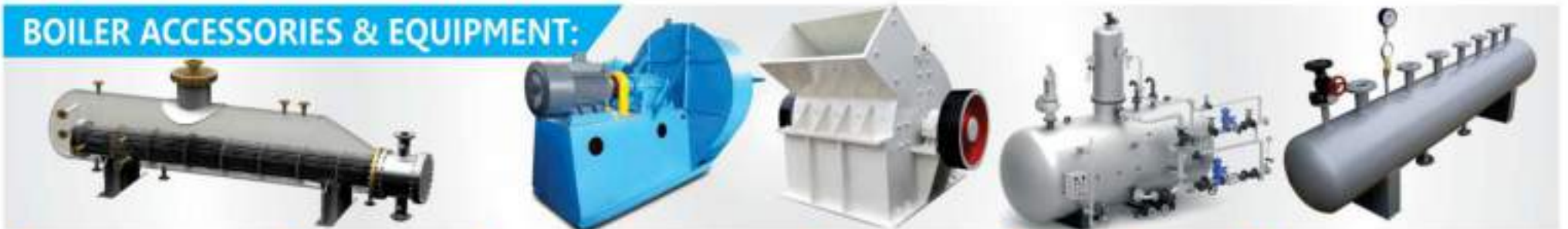
- ASME Standard Boiler Tubes
- ASME Standard Pipes
- Economizer Tubes
- ASME Standard Flanges

INSTRUMENTS & CONTROL SYSTEMS:



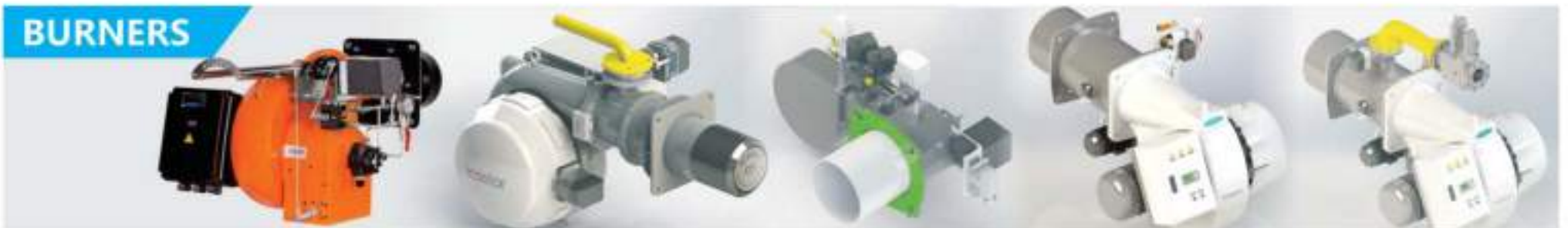
- Flow Meters
- Transmitters
- Mobery & Gauge Glass
- Thermocouple & PT - 10

BOILER ACCESSORIES & EQUIPMENT:



- Steam Accumulator
- Super Heaters
- Tanks And Pressure Vessels
- Heat Exchanger
- ID Fans
- FD Fans
- Coal Crushers

BURNERS



- Gas & Oil Fired Burners
- Monoblock Burners
- Duoblock Burners
- Process Burners
- Duct Burners
- Recuperative Burners

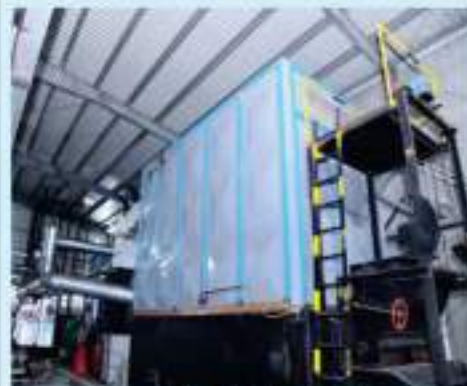
OUR CUSTOMERS

FBL Group has more than, 1000 Nos Projects Completed through out the world from various sectors of industry





Al Ameen Moon
(15 TPH Converted Chain
Grate Coal Fired Steam boiler)



Al Makkah Textile
(06 MKCAL Chain Grate Coal
Fired Thermal Oil heater)



Al Makkah Textile
(15 TPH Coal Fired Chain
Grate Steam Boiler)



ARC Textile
(Biomass Conversion of steam Boiler)



Asia Feed Mills,
Biomass Fired Chain
Grate steam boiler



Captain PQ Chemical Karachi,
04 TPH Gas fired steam boiler



Barkha Textile Faisalabad,
08 MKCal Coal Fired
thermal Oil heater



Century Paper Mill Jambar,
25 TPH Coal Fired Steam Boiler



Fauji Food limited Bhalwal,
10 TPH boiler Body



FBL Made Hybrid
Biomass Fired steam boiler



FFFL Sahiwal
02 TPH Fully Automater
Coal Fired steam Boiler



Gharibsons Karachi,
Coal Conversion of
50 TPH steam boiler



Ihsan Cotton Lahore,
06 TPH Coal & Biomass Fired
Chain grate steam boiler



Jadeed Feeds Shakhkot
(10 TPH Coal Fired Chain
Grate steam boiler)



JK Spinning Faisalabad
(10 TPH Coal Fired Chain
Grate steam Boiler)



Kamal Textile Mills Faisalabad,
09 Mkal Coal Fired
Thermal Oil heater



KAPCO Kot Addu
25 TPH Coal Fired Steam Boiler



West Point Home Bahrain
Triplex Waste Heat Recovery
Steam Boiler



Fahad Al Marbae Co. Saudi Arabia
01 TPH Diesel Fired Package
Type Steam Boiler



Sadaqat Limited Faisalabad
(06 Nos Boilers & Oil Heater in one
Shed Supplied and installed by FBL)



Maheen Textile
(10 TPH Coal fired steam boiler
& 05 Mkal Combo Oil Heater)



Lahore Fashion,
Coal Fired Steam Boiler
and Thermal Oil Heater



Magna Textile
(Biomass Converted Coal Fired
Chain Grate Steam Boiler)



Sapphire Ferozwatwan
Biomass Conversion of
Chain grate Coal Fired steam boiler

FBL APPOINTMENT CERTIFICATES

 <p>Appointment Certificate</p> <p>We, Shanghai Lajar Control Valve Co., Ltd. Shanghai, China hereby appoint FBL Industrial Services, Lahore, Pakistan as our Agent for marketing, stocking, sales, distribution, installation and service in Pakistan and Middle East territory.</p> <p>FBL Industrial Services shall provide answers to any queries from the clients regarding installation, operation and maintenance for free.</p> <p>If the clients require, FBL Industrial Services shall provide technical and engineering services free as mutually agreed by the clients and FBL Industrial Services.</p> <p>Signed By:  Name:  Designation: Lahore Manager Date: 2020-01-01</p>	 <p>APPOINTMENT CERTIFICATE</p> <p>We Hammer Industries USA, hereby appoint FBL Industrial Services Lahore Pakistan, As our Sole Distributor and Agency for Sales and Marketing of our products and technical services in Pakistan, Afghanistan and Middle East etc.</p> <p>FBL shall be responsible for providing all kind of technical assistance regarding all of our products and its related services as per mutually agreed by client.</p> <p></p>	 <p>To whom it may concern,</p> <p>The Boiler Combustion Systems (TERMO ISI SYSTEMS TIC INC. SAN AE.) with company headquarters in Trondheim Nor., Norway (Oslo, No. 75, Rut 3, Mønstervei Plaza Apartment/TURNOFF) hereby confirm that FBL Industrial Services (Pvt) Ltd will sell and install our products in PAKISTAN.</p> <p>FBL Industrial Services (a company of FBL Group) Head Office: 57/51, Canal View Housing Society, Near Gate #, Minto Road, Lahore Pakistan. Office Address: 17/18, Minto Road, Near Tawalp Near Beasra House National University, Rawand Road, Lahore Pakistan.</p> <p>Signed by:  </p>	<p>无锡杰能加热炉有限公司 Wuxi Jieneng Boilers and Combustion Engineering CO. LTD (CHINA)</p> <p>APPOINTMENT</p> <p>We hereby appoint FBL Industrial Services as our Sole Distributor and Agent for Marketing, Sales, Installation and Services of Industrial Boilers and Oil Heating Systems in Pakistan and Middle East.</p> <p>President: Zhang Ronghua 2022-10-11 </p> <p></p>
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CERTIFICATE OF REGISTRATION
This is to certify that the Management System of

FBL INDUSTRIES (PRIVATE) LTD

Address: 26/A, Tary Gardens, Housing Society, Lahore - Pakistan.

This Certificate certifies that management system of above organization has been verified and found to be in accordance with the requirements of management standard defined below.

ISO 9001:2015
Quality Management System

Scope of Certification:
Manufacturing/Installation of industrial machinery and equipment/Installation of industrial machinery and equipment.

Certificate No.: PCT/18888

Issue/Registration Date: 01-11-2020
Expiry/Review Date: 01-11-2022
PI/Supervision Date: 01-11-2020
Surveillance Date: 01-11-2021
Re-Certification Date: 01-11-2022


Authorized Signatory





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FBL INDUSTRIES (PRIVATE) LTD

Address: 26/A, Tary Gardens, Housing Society, Lahore - Pakistan.

This Certificate certifies that management system of above organization has been verified and found to be in accordance with the requirements of management standard defined below.

ISO 14001:2015
Environment Management System

Scope of Certification:
Manufacturing/Installation of industrial machinery and equipment/Installation of industrial machinery and equipment.

Certificate No.: PCT/18888

Issue/Registration Date: 01-11-2020
Expiry/Review Date: 01-11-2022
PI/Supervision Date: 01-11-2020
Surveillance Date: 01-11-2021
Re-Certification Date: 01-11-2022


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Address: 26/A, Tary Gardens, Housing Society, Lahore - Pakistan.

This Certificate certifies that management system of above organization has been verified and found to be in accordance with the requirements of management standard defined below.

ISO 45001:2018
Health and Safety Management System

Scope of Certification:
Manufacturing/Installation of industrial machinery and equipment/Installation of industrial machinery and equipment.

Certificate No.: PCT/18888

Issue/Registration Date: 01-11-2020
Expiry/Review Date: 01-11-2022
PI/Supervision Date: 01-11-2020
Surveillance Date: 01-11-2021
Re-Certification Date: 01-11-2022


Authorized Signatory



HEAD OFFICE / ENGINEERING WORKS :

📍 13- Km, Off Thokar Niaz Baig, Raiwind Road, Adda Plot,
Near Beacon House National University, Moza Tarogil,
Lahore - Pakistan.

📞 +92 345 8188915, 0300 8490500

DUBAI OFFICE:

📍 Abu Hail Dubai.

Warehouse: No. 8, Plot #20 St # 14,
Industrial Area, No. 03 Sharjah UAE

📞 +971 50 329 9395

✉ Email: raheel@fblgroup.com.pk

