



PRESSURE & PROCESS BOILERS

AN ISO 9001:2015 CERTIFIED CO.

www.ppboilers.com



2024 **COMPANY** **PROFILE**

Designer | Manufacturer | EPC Solution Provider



COMPANY OVERVIEW

Pressure & Process Boiler (P) Ltd. (PPB), a leading industrial and manufacturing company, was established in 2009 with the mission to provide specialized engineering and consultancy services in the field of boilers and power plants. Leveraging the extensive experience of its promoters, who boast over 20 years of expertise in boiler design, engineering, manufacturing, erection, and commissioning, PP Boilers has become a trusted name in the industry.

In 2010, PP Boilers expanded its operations to include the full-scale manufacturing of steam boilers and all associated boiler accessories. This move marked a significant milestone in the company's evolution, allowing it to offer comprehensive solutions to meet the diverse needs of its clients. PPB's team is renowned for their commitment, competence, and compliance, ensuring that every project is executed to the highest standards of quality and efficiency.

VISION & MISSION

Vision: To be a global leader in the boiler and power plant industry, known for our innovative solutions and commitment to sustainability.

Mission: To provide exceptional engineering and manufacturing services that help our clients achieve their energy and operational goals, while contributing to a more sustainable future.

INFRASTRUCTURE

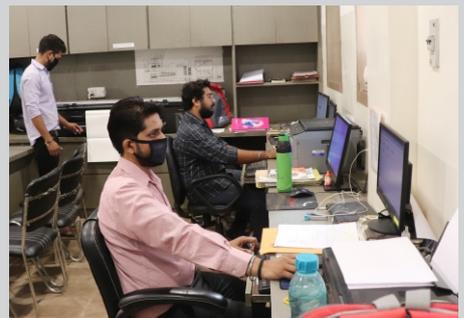
At Pressure & Process Boiler (P) Ltd., our state-of-the-art infrastructure is the backbone of our operations, enabling us to deliver high-quality products efficiently and effectively. We pride ourselves on our in-house manufacturing facilities, which are equipped with the latest technology and automated systems.

Manufacturing Facilities: Unit-I: Spanning 18,000 square yards of covered land, this facility is dedicated to producing both pressure and non-pressure parts.

Advanced Technology: Our facilities are equipped with cutting-edge automated systems that streamline our manufacturing processes. This integration of new technology not only enhances our production efficiency but also ensures the highest standards of quality and precision in our products.

Skilled Workforce: We are proud to have a dedicated and talented workforce of 250 individuals, comprising engineers, supervisors, and workers at various levels. This team is committed to delivering their best, driven by a shared goal of excellence. Our well-defined systems and procedures support our team, ensuring that every product we manufacture meets stringent quality standards.

Our robust infrastructure combined with a highly skilled workforce and advanced technological capabilities, positions us to consistently produce superior products that meet and exceed our clients' expectations.



MANUFACTURING CAPABILITIES

At PP Boilers, our manufacturing capabilities are at the forefront of the industry, equipped with cutting-edge technology and state-of-the-art facilities to deliver top-quality products and services. Here's a glimpse into our manufacturing prowess:

- 1. Covered Manufacturing Shops:** We operate three covered manufacturing shops, providing a conducive environment for efficient production. These shops are equipped with all necessary machinery, tools, and equipment to support our manufacturing processes.
- 2. CNC Booster Bending Machine:** Our low-radius bending capabilities are enhanced by our CNC booster bending machine, allowing us to achieve precise bends with exceptional accuracy and efficiency.
- 3. Fabrication & Welding Expertise:** With advanced saw-arc welding machines, we specialize in the fabrication and welding of higher thickness tank vessels, ensuring structural integrity and durability in every product.
- 4. Pressure Parts Fabrication:** We excel in the fabrication of pressure parts, adhering to stringent quality standards and industry regulations to deliver reliable and high-performance components.
- 5. Automatic Fin Welding Machine:** We have Automatic fin welding machine it improves the Quality of welding and reduces the fabrication time.
- 6. IBR & Non-IBR Piping:** Our expertise extends to the fabrication of IBR (Indian Boiler Regulations) and non-IBR piping systems, catering to diverse industrial applications with precision and reliability.
- 7. Structural & Plate Work:** We undertake fabrication work for structural, plate work, and miscellaneous items, leveraging our skilled workforce and advanced manufacturing facilities to deliver quality outcomes.

At PP Boilers, we take pride in our manufacturing capabilities and our commitment to excellence. With a focus on innovation, quality, and customer satisfaction, we strive to exceed expectations and set new standards in the industry.

INDUSTRIES WE SERVE

Steel Plant
Sugar Plant
Cement Industry
Paper Plants
Rice Industry
Distillery



Textile Industry
Plywood Industries
Pharmaceutical Industries
Petrochemicals
Solvent Extraction Plant & Refiners
Dairy & Agro Products
Chemical Industry

PRODUCT & EQUIPMENTS

BOILERS

Power Boilers

Waste Heat Recovery Boiler
Spent Wash Fired Boiler
AFBC
Biomass Fired Boiler
RDF Fired Boiler

Process Boilers

Waste Heat Recovery Boiler
Spent Wash Fired Boiler
AFBC
Biomass Fired Boiler
RDF Fired Boiler
Gas Fired Boiler
Oil Fired Boiler

**THERMIC FLUID HEATER
HOT AIR GENERATOR
HEAT EXCHANGER**

CONVEYING SYSTEM

Belt Conveyor
Bucket Elevator
Moving Floor
Chain Conveyor

Fan

Primary Air (PA) Fan
Secondary Air (SA) Fan
Induced Draft (ID) Fan
Custom Engineered Centrifugal Fan

EQUIPMENTS

Crusher
Deaerator
Chimney
Air Pre-heater (APH)
Economizer
Burner

AIR POLLUTION CONTROL EQUIPMENTS

ESP (Electro-Static Precipitator)
Bag Filter
Mechanical Dust Collector
Wet Bath Scrubber

SPARES

Pressure Parts

Tube/Pipe
Valves
Coils

---Stubbed In-Bed Coils
---Economizer Coils
---Super-Heater Coils

Vessel

Non-Pressure Parts

Pipe
Silencer
Tank
Structure

Others

Steam/Sonic Soot Blower
RALV
Conveyor rollers
Expansion Bellow
Damper

SERVICES

EPC PROJECT

Thermal Power Plant

--Captive Power Plant
--Co-Gen Power Plant
--IPP

Boiler

BOILER RETROFITTING & UPGRADES
TECHNICAL CONSULTANCY

AFTER SALE SERVICES

Plant Audit
On-Site Training
Maintenance & Support
24x7 Technical Assistance

PROJECT MANAGEMENT

At PP Boilers, we utilize cutting-edge project management strategies to ensure seamless execution and timely delivery of projects. Here's how we effectively manage our projects:

- **Adoption of Modern Techniques:** We continually update our methods by integrating the latest project management methodologies, ensuring we apply best practices to optimize outcomes.
- **Dedicated Project Leadership:** Each project is led by a dedicated Project Manager, who acts as the primary liaison for our clients. This manager ensures seamless integration of all aspects of the project, facilitating smooth communication among internal teams, vendors, and contractors throughout the project lifecycle.
- **Streamlined Coordination:** Our Project Manager ensures all departments, vendors, and contractors work harmoniously to meet project milestones on time and within budget. By fostering open communication and quickly resolving any issues, we efficiently achieve project objectives.
- **Advanced Planning and Scheduling:** We employ sophisticated project management tools like MS Project to plan and schedule tasks. This allows us to develop detailed timelines, allocate resources efficiently, and monitor progress against key deliverables.



QUALITY ASSURANCE & CONTROL

At PP Boilers, we prioritize quality at every stage of our operations, ensuring that our products meet the highest standards of excellence. Here's an overview of our quality assurance and control practices:

ISO Certification: We are proud to be an ISO certified company, demonstrating our commitment to quality management and continuous improvement.

IBR Certification: As an approved IBR certified Boiler Manufacturer Class II (up to 120 kg/cm²), we adhere to strict regulatory standards, ensuring the safety and reliability of our boilers.

Comprehensive QC Procedures: We have established comprehensive quality control procedures and documentation, meticulously followed throughout the manufacturing process to maintain consistency and quality.

Planning and Scheduling: We utilize advanced project management software such as MS Project to plan and schedule project activities. This enables us to create detailed project timelines, allocate resources effectively, and track progress against key deliverables.

Adherence to Standards: Our manufacturing of pressure parts strictly adheres to IBR guidelines, guaranteeing compliance with industry regulations and standards.

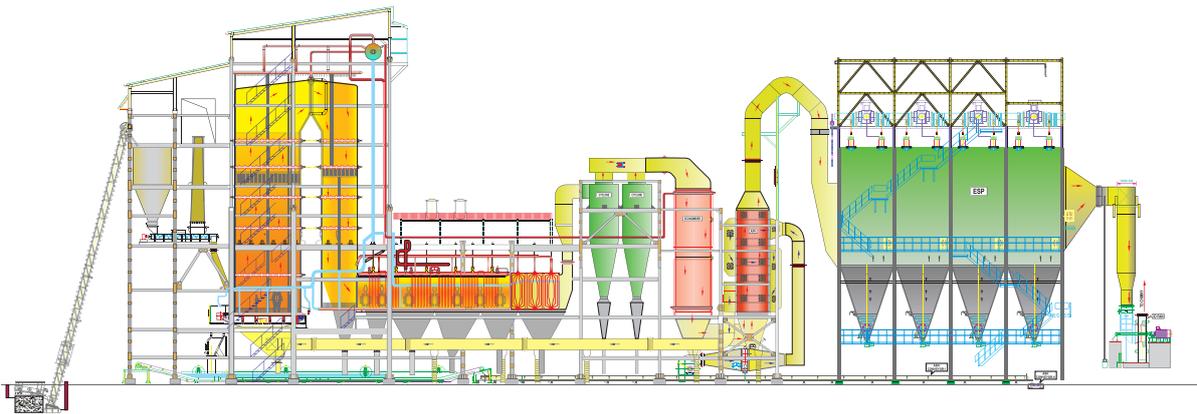
Quality Assurance Plan (QAP): We have a robust Quality Assurance Plan in place, outlining procedures and protocols to ensure that quality is upheld at every stage of production.

Dedicated QC Facilities: Our factory is equipped with a dedicated QC lab, equipped with advanced testing equipment and tools to conduct thorough quality inspections and assessments.

Specialized QC Department: We have a dedicated QC department comprising skilled professionals who ensure that quality is given the utmost importance, both at the shop floor and on-site installations.

At PP Boilers, our commitment to quality is unwavering. Through adherence to international standards, rigorous QC procedures, and a dedicated team of professionals, we ensure that our products consistently meet and exceed customer expectations.

SPENT WASH FIRED BOILER (SLOP)



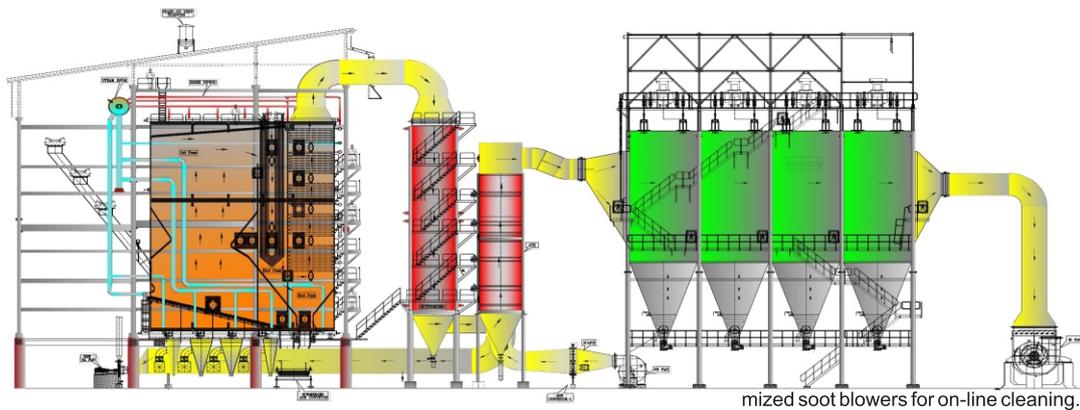
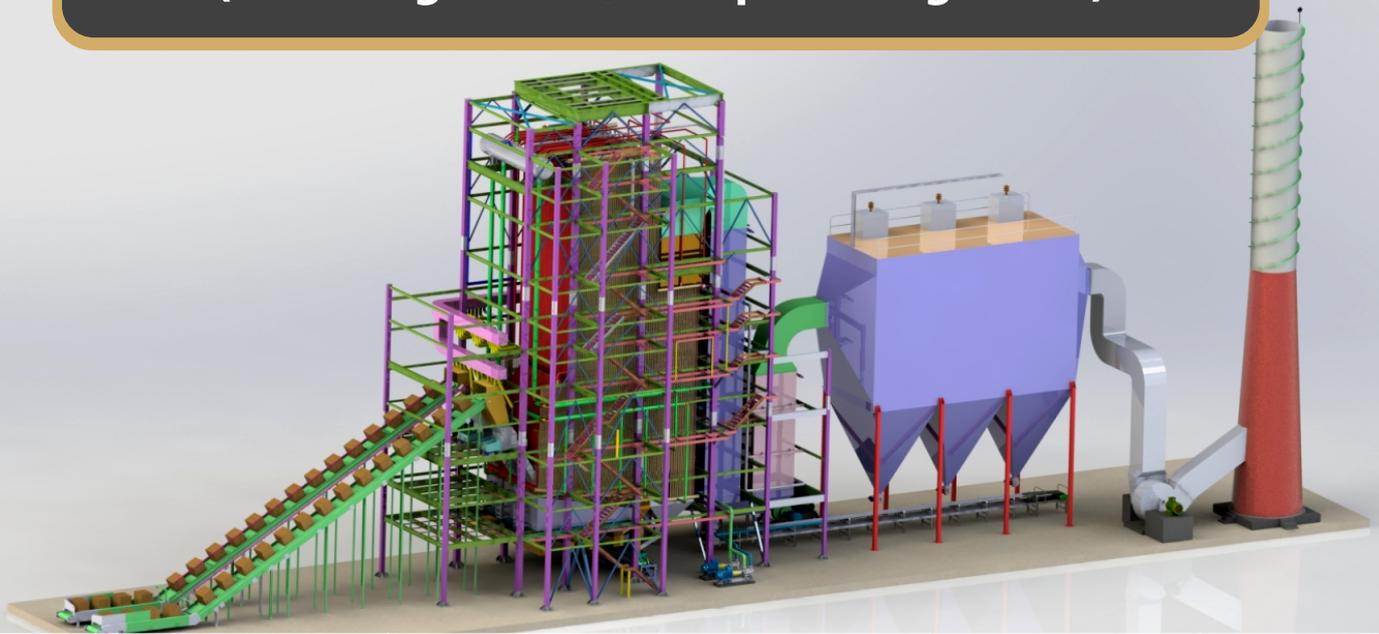
Technical Specification

Industries	: Molasses Based Distillery
Capacity	: 10 TPH to 80 TPH
Working Pressure (W.P)	: 47 kg to 52 kg
Temperature	: 400° C - 440° C

Description: Pressure & Process Boilers has introduced Spent Wash/Vinasse fired water Tube Boiler to Burn 100% Slop into the Boiler and keep Industry on Zero liquid Discharge. The proposed boiler is a Single-Drum Water Tube Boiler with multi-pass furnace design. PPB has proposed both external/internal fired super heater designs. The boiler is design on 75% spent wash/vinasse in combination with supporting fuels like Rice Husk/Coal/Biomass the slop contains Chlorine, Sulphur, K₂O and oxides of Sodium and magnesium keeping in view the impurities in its fuel the boiler is designed to avoid fouling/slogging problems.

Technology: The concentrated slops with 55 to 60% solid contents are injected into the furnace with the help of high-pressure pumps and special-designed spray nozzles. The slops burn completely in free board and it does not reach the bottom of the furnace i.e. bed or top of grate. The flue gases then pass through multi-furnace zone and major ash particles are separated at furnace outlet. The flue gases then pass through the evaporator/super- heater section incase of internal super-heater they pass through Evaporators, Economizer, Air Pre Heater, and Cyclone Bag House/ESP. The system is equipped with a number of customized soot blowers for on-line cleaning.

Rice Straw/Sugar Cane Leaf Trash Boiler (Vibrating Grade / Reciprocating Grate)



Technical Specification

Industries	: Paper, Chemical, Plywood, and others
Capacity	: 6 TPH to 200 TPH
Working Pressure (W.P)	: 10.5 to 87 Kg/Cm ²
SH Temperature	: Upto 520° C

Description: Pressure & Process Boilers proudly introduces the Rice Straw Bale Fired Water Tube Boiler, a cutting-edge solution designed to generate steam for process and power generation at minimal running costs. This innovative boiler is engineered to burn 100% Rice Straw in bale shape or any biomass, providing industries with a sustainable and cost-effective energy source.

Technology: The boiler is equipped with Reciprocating Grate/Vibrating Grate Technology, specifically designed to burn 100% Rice Straw efficiently. The advanced design ensures maximum freeboard area and multi-pass functionality, preventing boiler choking and ensuring smooth operation. The flue gases pass through multi-furnace zones, where major ash particles are separated at the grate outlet. Subsequently, the flue gases undergo further treatment in the super heater, evaporator section, economizer, air preheater, and cyclone bag house/ESP, ensuring optimal heat recovery and pollution control.

WASTE HEAT RECOVERY BOILER



Technical Specification

Industries	: Sponge Iron Plant (150 TPD, 250 TPD, 350 TPD)
Capacity	: 5 TPH to 15 TPH
Working Pressure (W.P)	: 45 Kg/Cm ² to 65 Kg/Cm ²
SH Temperature	: 440°C to 480°C

Description: The Waste Heat Recovery Boiler is designed to produce steam at the required pressure and temperature by utilizing the waste heat from Sponge Iron Kilns. This boiler is of the Water-Tube type, with flue gases from the Sponge Iron Kiln flowing over the tubes while water and steam circulate within them.

Key Features

Water-Tube Design: Enhances heat transfer efficiency and allows for higher steam generation capacity.

Multiple Flue Gas Passes: Consists of three flue gas passes to maximize heat recovery and optimize boiler performance.

Sections: The boiler includes a radiation section, screen section, and super heater section in the first pass (divided into primary and secondary super heaters), a convection section in the second pass, and another convection section and an economizer section in the third pass.

BI-DRUM WATER BOILER



Technical Specification

Industries	: All Process Plants
Capacity	: 10 TPH to 200 TPH
Working Pressure (W.P)	: 10 Kg/Cm ² to 87 Kg/Cm ²
SH Temperature	: Upto 540°C

Description: The Bi-Drum Water Tube Boiler features a unique design with ample water holding capacity and a tall furnace, facilitating complete combustion of fuel particles within the furnace zone. This high-pressure boiler incorporates highly advanced technology to ensure efficient fuel combustion and exceptional fuel flexibility.

Benefits: The Bi-Drum Water Tube Boiler is a versatile and efficient solution for process plants requiring high-pressure steam generation. With its advanced design, fuel flexibility, and wide application range, it offers exceptional performance and reliability in industrial operations.

Efficient Combustion | Fuel Flexibility | Wide Application | Robust Construction | Compliance

GAS-OIL FIRED BOILER

Description: We specialize in crafting custom-made Gas Fired Boilers tailored to meet the unique flame length and combustion parameters of various burners, including Weishaupt, Riello, EcoStar, Bentone, and more. Our expertise lies in engineering boilers that seamlessly integrate with a wide range of burner configurations to optimize efficiency, performance, and safety.



Benefits: PP Boilers combine cutting-edge technology with years of expertise to deliver Gas Fired Boilers that exceed expectations in terms of performance, reliability, and efficiency. We provide tailored solutions that perfectly match your burner requirements and elevate your industrial processes.

Optimized Performance | Flexibility | Energy Efficiency | Custom Solutions | Compliance



Gas Burners

- 1 to 15 TPH
- 10.5 y to 21 y



Gas Tracking

BOILER SPARES

Studded In Bed Coils

We supply studded bed coils used in FBC furnaces. Studs are of MS/SS with various thicknesses & size. Studded bed coils increase the heat transfer & the life of Bed Coils,

Economizer Coils

Economizer coils are used to increase the feed water temperature & generally used in high pressure boilers

Super Heater Coils

Super Heater Coils are used in a boiler to convert saturated steam to Super-heated steam. We manufacture super heater coils in various grade of carbon & alloy steel.

Pollution control equipments | Treedy Venturi Scrubber | Bag House | ECG

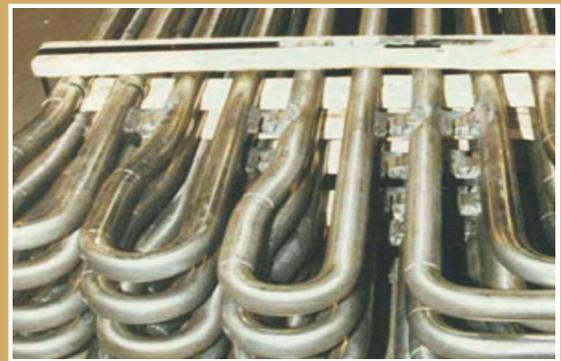
Venturi Wet Scrubber for boiler with guaranteed emission level and less than CPCB norms, zero maintenance & performance like ESP, also modify existing SIEVE tray scrubber into venture type.

Draft Equipments (Fans)

Fans are used to propel or displace Air & Flue gas. We manufacture both FD& ID fans designed for medium & heavy duty application.



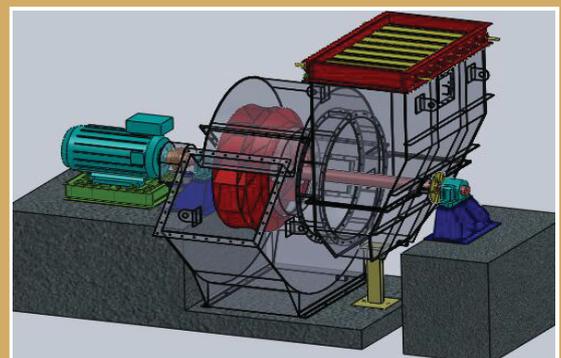
Studded Inbed Coils



Super Heater Coils



Pollution Control Equipments
Venturi Scrubber



Draft Equipments (Fans)

POWERING INDUSTRY NATIONWIDE

Boilers Installed Across Pan India with Precision and Reliability

120 TPH



110 TPH



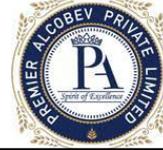
125 TPH



105 TPH



VALUED CUSTOMERS





ALCO Grains Distillers & Bottlers Ltd.
West Bengal
Boiler Capacity: 120.0 TPH



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