CETHAR ENGINEERING PRIVATE LIMITED

The Boiler Specialists

COMPANY PROFILE

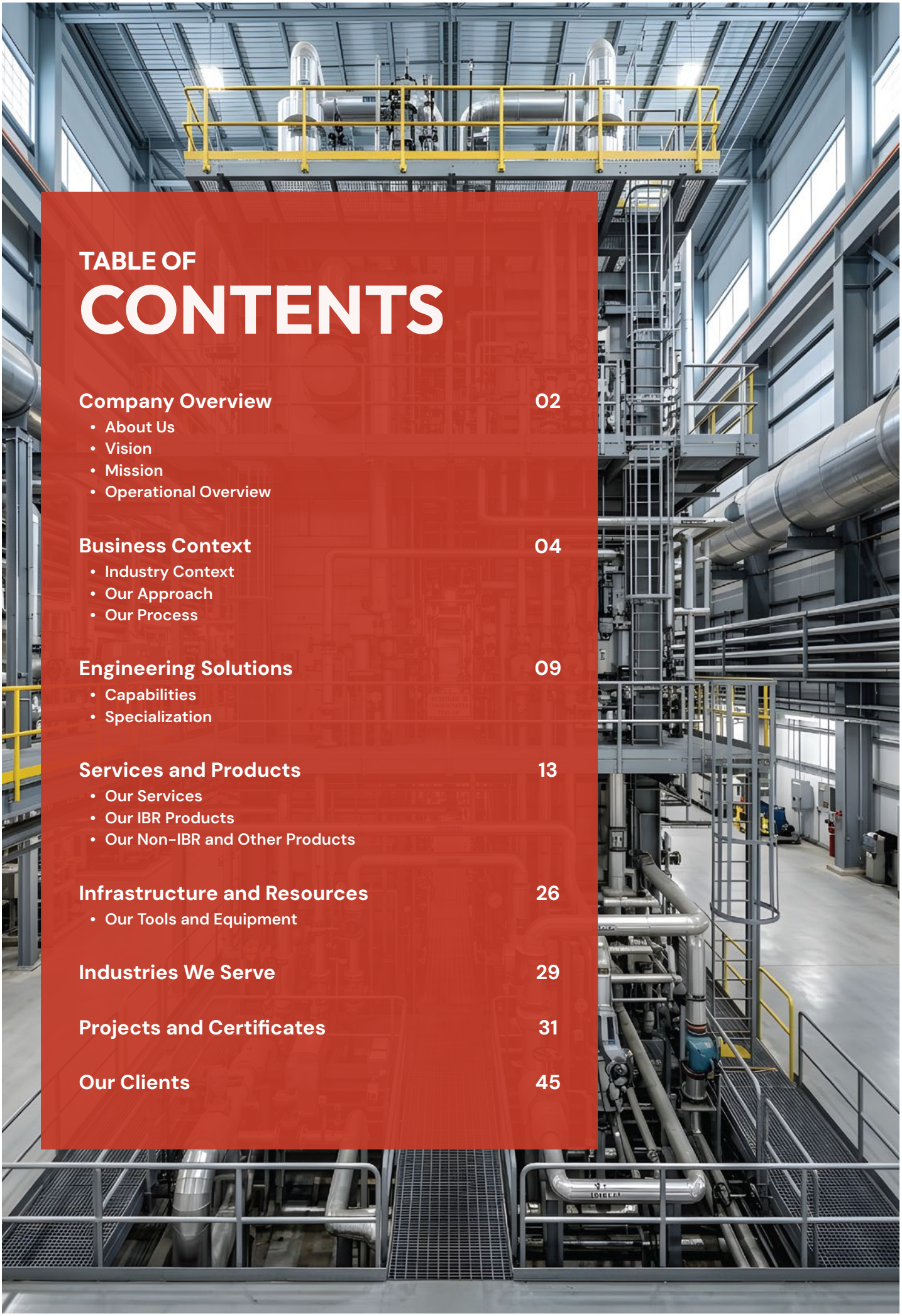


TABLE OF

CONTENTS

Company Overview 02
- About Us
- Vision
- Mission
- Operational Overview

Business Context 04
- Industry Context
- Our Approach
- Our Process

Engineering Solutions 09
- Capabilities
- Specialization

Services and Products 13
- Our Services
- Our IBR Products
- Our Non-IBR and Other Products

Infrastructure and Resources 26
- Our Tools and Equipment

Industries We Serve 29

Projects and Certificates 31

Our Clients 45

COMPANY OVERVIEW

ABOUT **US**

Cethar Engineering Pvt. Ltd. (CEPL) is a professionally managed boiler service, supply, and manufacturing company specializing in industrial boiler systems, thermal solutions, and related engineering services. We are committed to delivering high-performance boiler solutions that ensure operational efficiency, fuel optimization, and long-term reliability for industrial plants.

With strong technical expertise and practical field experience, CEPL provides complete support in boiler manufacturing, supply, installation, maintenance, and performance improvement, ensuring smooth and uninterrupted plant operations. Our approach is focused on engineering excellence, safety standards, and timely project execution to meet the growing demands of modern industries.

Vision

Our vision is to provide complete assurance to our clients, ensuring their boilers operate safely, efficiently, and reliably at all times.

We strive to deliver peace of mind by maintaining consistent performance, minimizing risks, and supporting uninterrupted industrial operations.

Mission

Our mission is to provide fast, efficient, and hassle-free boiler solutions that meet every operational and safety requirement.

We are committed to ensuring full compliance with all industry norms while delivering reliable, high-performance systems for our clients.

Operational Overview

200+
Workforce Strength

10+
Industries Served

24x7
Service Capability

05
Locations

BUSINESS CONTEXT

INDUSTRY **CONTEXT**

Boiler Performance is Not Just Technical, **it is Financial.**

In industrial operations, boiler performance directly impacts:

Production Continuity

In any industrial process, the boiler acts as the facility's beating heart. When its performance fluctuates or fails, the entire production line is affected. Maintaining a steady load reduces cyclic heat losses from frequent pre-purge and post-purge sequences, while ensuring a stable air-to-fuel ratio for efficient combustion.

Fuel Consumption and Cost

Fuel consumption and cost are key indicators of boiler performance, directly affecting efficiency and operating expenses. High fuel use compared to steam output may indicate poor heat transfer or improper combustion. Since fuel contributes to most lifecycle costs, improving fuel efficiency is essential for cost-effective operation.

Maintenance Frequency

In industrial operations, the boiler is often the primary driver of energy costs. Maintaining peak boiler efficiency is not just a maintenance goal, but a critical financial strategy. Even a small decline in thermal efficiency can cause a significant rise in operational overheads.

Plant Efficiency

Plant efficiency measures how effectively a boiler converts fuel energy into useful steam output. It depends on fuel consumption, heat transfer, and combustion performance. Lower fuel use for the same steam generation indicates higher efficiency, reducing operating costs and improving overall plant performance.

Small **Inefficiencies or Delays** Can Result in Significant Operational Losses.

The reality most plants face:

Frequent Breakdowns

In high-output industrial environments, frequent breakdowns represent the most volatile threat to production continuity. These failures are rarely isolated incidents; rather, they are often the cumulative result of thermal shock and mechanical stress caused by inconsistent cycling.

Increasing Fuel Cost

In the modern industrial landscape, fuel consumption typically accounts for over 80% of the total lifecycle cost of a boiler. As global energy markets fluctuate, even a marginal drop in combustion efficiency translates into a massive surge in operational expenditure (OPEX).

Delayed Service Response

In industrial boiler operations, delayed service response can turn a minor technical issue into a major operational failure. Since boilers act as the thermal heart of most plants, any delay in expert intervention directly increases downtime costs and production losses.

Performance Drop Over Time

In the demanding environment of a power or process plant, a boiler's performance is rarely static. Without strict adherence to production continuity and proactive maintenance, several technical factors converge to degrade system efficiency.

OUR **APPROACH**

A Different Approach to Boiler Systems

Most vendors focus on delivery.
We focus on how the system performs over time.

Designing Systems for Real Operating Conditions

While others design for the 'perfect day,' we design for the daily reality. We ensure your system delivers its nameplate performance on year ten just as it did on day one.

Ensuring Quality Execution During Installation

Quality execution isn't just about a successful start-up, it is about eliminating the latent defects that lead to premature de-rating and unscheduled downtime over the boiler's lifecycle.

Providing Continuous Service Support

A boiler is not a "set and forget" asset. Through continuous service support, we treat the system as a dynamic process where operational stability is the primary driver of your bottom line.

Improving Performance Over Time

While standard delivery models focus on commissioning, our methodology prioritizes the long-term thermal evolution of the system.

OUR **PROCESS**

Structured Execution Approach

Our structured execution process is designed to minimize operational risk, improve plant efficiency, and ensure seamless coordination between engineering, supply chain, and site execution teams.

1. Requirement Understanding

We begin with a deep understanding of the client's boiler requirements to deliver customized and reliable boiler solutions.

2. Design and Engineering

Our design and engineering services deliver optimized and technically robust solutions tailored to specific project requirements. This approach ensures enhanced performance, operational reliability, and timely project execution.

3. Procurement and Manufacturing

Our procurement and manufacturing services ensure quality sourcing and precision fabrication as per project needs, supported by strong vendors and strict quality control for timely, cost-efficient delivery.

4. Installation and Commissioning

We deliver end-to-end boiler solutions through a structured execution framework covering engineering coordination, material supply, installation planning, site execution, testing, and commissioning support.

5. Testing and Handover

We focus on planned execution, technical inspection, performance testing, and proper handover, ensuring that every boiler system operates efficiently and safely in industrial environments.

6. Ongoing Support

Our supply and service process supports continuous boiler operation, maintenance, and efficient system performance, ensuring minimal downtime and maximum reliability.

ENGINEERING SOLUTIONS

CAPABILITIES

Integrated Execution Capability

We deliver a vertically integrated execution model covering every phase of the boiler lifecycle, from heat balance calculations and system design to manufacturing, installation, and commissioning. With single-point technical accountability, this approach minimizes coordination gaps, improves engineering precision, and ensures consistent performance across all stages.

Our capabilities extend into complete lifecycle management for high-pressure steam and hot water generation systems. We combine technical expertise with structured processes to optimize efficiency, ensure regulatory compliance, and improve long-term operational reliability.

We also integrate monitoring systems, data-driven diagnostics, and predictive maintenance strategies to reduce downtime and improve asset life. Our teams align engineering solutions with operational goals, ensuring scalability, energy efficiency, and cost-effective performance throughout the system lifecycle.

Advanced Fabrication Facility

Modern fabrication setup for CS, SS, and alloy steel with quality welding and timely delivery.

Strong Project Management

Structured planning, resource control, and monitoring for smooth project execution.

Ability to Handle Turnkey EPC Projects

Complete EPC execution from planning to commissioning with single point accountability.

Maintain Strict Quality and Safety System

Strict QA/QC and HSE practices ensuring safe, compliant, and reliable execution.

After-Sales Support

Prompt technical support, troubleshooting, maintenance, and performance monitoring.

OUR **SPECIALIZATION**

Execution During Critical Situations

Boiler Breakdown and Shutdown Jobs

We specialize in handling breakdown and shutdown situations where time is critical. We have extensive experience with a trained and specialized team to carry out boiler breakdown or shutdown jobs in an expeditious manner.

In case of breakdown of boilers, we immediately swing into action and tirelessly work round-the-clock to make the boiler operational again in the shortest possible time without compromising on quality.

Proven Execution Capability

Replaced **100** smoke tubes of package type boilers in just **05** Days

Replaced **100** studded bed coils of water tube boilers in just **03** Days

Reconditioning and Installation of Boilers

We deliver reliable boiler reconditioning and installation services to restore, upgrade, and install industrial boiler systems with high efficiency, safety, and long-term operational stability.

With strong industrial experience, we provide end-to-end support from dismantling, reconditioning, erection, alignment, and installation to commissioning.

Our reconditioned boiler systems offer a cost-effective alternative without compromising performance. We provide fully reconditioned package-type smoke tube boilers through strict reconditioning processes.

Our process includes inspection, assessment, repair planning, and quality checks to ensure safe and reliable performance before handover.

Key Technical Capabilities

- Boiler Reconditioning & Refurbishment
- Boiler Dismantling & Shifting
- Boiler Installation & Erection
- Piping, Ducting & Auxiliary Installation
- Commissioning & Performance Testing
- Safety & Quality Assurance

SERVICES AND PRODUCTS

OUR **SERVICES**

Cethar Engineering Pvt. Ltd. provides complete boiler and industrial engineering services for safe, efficient, and reliable plant operations. Our expertise covers boiler manufacturing, erection, commissioning, repair, maintenance, upgradation, inspection, compliance, and consultancy.

We support industries where steam generation and operational reliability are critical. With strong technical knowledge and site execution experience, we help reduce downtime, improve performance, and extend boiler life.

Our service approach focuses on quality workmanship, safety, compliance, and timely execution. From routine maintenance to emergency breakdown support and turnkey EPC projects, every job is handled with precision.

Through our specialized services, we deliver dependable engineering solutions that improve efficiency and ensure smooth boiler operation across industrial sectors.

Engineering, Procurement, and Construction

Our EPC and turnkey approach ensures single-point accountability, technical excellence, and seamless project execution across the lifecycle.

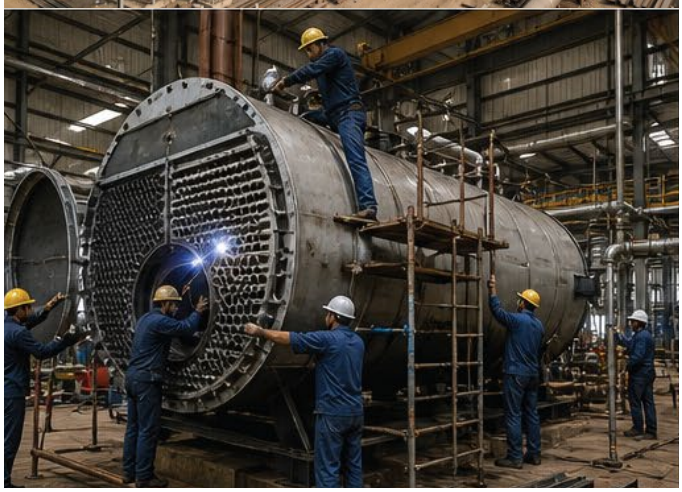
We deliver end-to-end solutions for high-pressure boilers and power generation systems, from engineering and procurement to installation, commissioning, and performance optimization, supported by integrated project planning, quality, safety, and schedule management.

- Conceptual and Detailed Engineering
- Procurement and Vendor Management
- Manufacturing and Fabrication
- Erection and Installation
- Testing and Commissioning
- Boiler and Power Plant Solutions

Boiler Erection and Commissioning

We provide complete boiler erection and commissioning services with a strong focus on safety, technical accuracy, and timely project execution. We specialize in installation, alignment, integration, and commissioning of industrial boilers and auxiliary systems to ensure smooth startup and reliable long-term operation.

- All Types of Boilers Erection & Installation
- Boiler Auxiliary Equipment Installation
- Piping and Mechanical Integration
- Insulation and Finishing Support
- Commissioning and Start-Up Support



Repair and Maintenance of Boilers

We provide boiler repair and maintenance services designed to ensure safe operation, high efficiency, and long-term reliability of industrial boiler systems. We specialize in preventive, corrective, and breakdown maintenance with a strong focus on performance optimization, safety compliance, and minimum plant downtime. We support industries in maintaining boiler systems at optimal operating conditions through systematic inspection, timely repair, and efficient maintenance planning.

Advanced Boiler Manufacturing

Our manufacturing process transcends standard fabrication by integrating precision engineering with high-grade metallurgical standards. We don't just build boilers; we engineer high-performance thermal assets designed for maximum availability and rigorous industrial duty cycles.

Retrofitting and Upgrades

Our approach to retrofitting transcends simple component replacement; we focus on systemic optimization to align aging assets with modern performance standards. By integrating advanced thermodynamic controls and high-efficiency hardware, we extend equipment life cycles while drastically reducing operational overhead.

Boiler Pipeline Solutions

We provide comprehensive boiler pipeline solutions for industrial applications, covering engineering, fabrication, and installation of boiler and steam piping systems. Our expertise includes IBR and Non-IBR piping projects, with a strong focus on safety, durability, and operational efficiency.

IBR Approved

All types of IBR Piping Solutions

All types of Non-IBR Piping Solutions

Operation and Maintenance of Industrial Boilers

We provide operation and maintenance (O&M) services for industrial boilers, ensuring safe, efficient, and uninterrupted steam generation. Our approach improves boiler reliability, reduces fuel consumption, minimizes downtime, and enhances overall plant performance.

- Boiler Operation and Management
- Preventive and Routine Maintenance
- Breakdown Support
- Boiler Performance Monitoring
- Boiler Auxiliary Equipment Maintenance

Inspection and Compliance

We provide boiler inspection and compliance services to ensure safe, reliable, and regulation-compliant operation of industrial boiler systems. We focus on preventive inspection, performance evaluation, and statutory compliance to reduce operational risks and improve system reliability.

- Boiler Health Assessment
- Statutory and Regulatory Compliance
- Performance and Safety Inspection
- Preventive Maintenance Inspection
- Risk Assessment and Safety Evaluation
- Inspection Reporting and Technical Guidance

Upgradation

We provide industrial boiler upgradation services to improve performance, safety, fuel efficiency, and reliability of existing boiler systems. We help industries modernize boiler infrastructure by upgrading outdated components, optimizing combustion systems, and enhancing thermal efficiency to meet current operational and environmental standards.

- Boiler Performance
- Combustion and Fuel System
- Boiler Auxiliary Equipment
- Automation and Control System
- Insulation and Thermal System
- Safety and Compliance

Boiler Accessories Supply and Service

We provide boiler accessories and technical support, delivering quality components, engineered solutions, and reliable on-site support for safe and efficient boiler operations.

- Complete Boiler Accessories
- Reliable Supply and Support
- Quality Materials and Components
- Strong Site Execution and Service Team
- Safety, Efficiency and Reliability
- Professional Project Coordination

Consultancy

We provide comprehensive industrial boiler consultancy, supply, and service solutions to ensure safe, efficient, and cost-effective operations. Our expertise covers boiler selection, system design, supply coordination, performance improvement, and lifecycle support.

Strong Industrial Boiler Consultancy Expertise

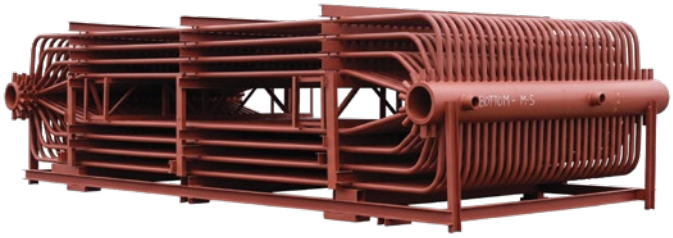
Technical and Site-Oriented Approach

Customized Solutions for Different Industries

Long-Term Industrial Support and Client Satisfaction

END-TO-END BOILER SERVICES FOR SAFER, EFFICIENT, UNINTERRUPTED PLANT OPERATIONS.

OUR **IBR PRODUCTS**



Bank Tube Assembly

Bank tube assemblies play a critical role in boiler performance by enabling effective heat absorption and steam generation. Our technical expertise ensures that every bank tube assembly is designed, fabricated, and installed according to industry standards, maintaining durability, pressure integrity, and thermal efficiency.

Studded Bed Coils

Studded bed coils play a critical role in fluidized bed boilers and solid fuel-fired boilers, ensuring effective heat absorption and uniform temperature distribution inside the combustion chamber.

Economizer Coils

The economizer plays a critical role in recovering waste heat from flue gases and preheating feed water, thereby improving thermal efficiency and reducing operational costs.

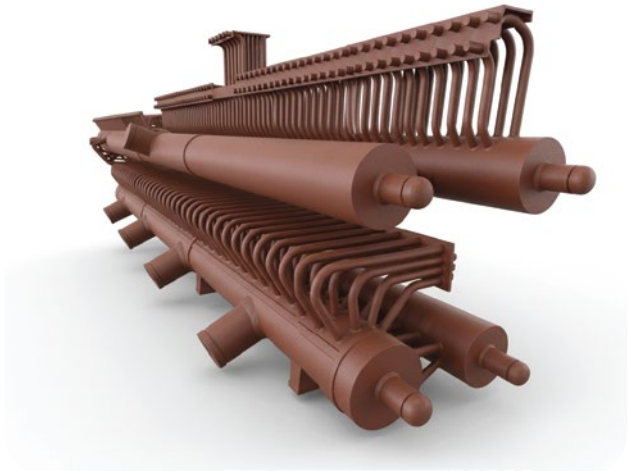
OUR **IBR PRODUCTS**

Evaporator Coils

Evaporator coils are one of the most critical components in a boiler, responsible for absorbing heat from flue gases and converting feed water into wet steam.

Boiler Headers

Boiler headers are designed to ensure reliable steam and water distribution, efficient heat transfer, and safe operation of boiler systems.



High Freq. Spiral Fin Tube Welded Coil

We provide high-performance finned tube solutions designed to enhance heat transfer efficiency, improve boiler performance, and increase operational reliability in demanding industrial environments.

OUR **IBR PRODUCTS**

Short Radius and Specialty Bends

Short Radius & Specialty Bends are precision-fabricated from carbon steel for boiler and high-temperature piping systems. Available in 1D, 0.65D, and custom configurations, they deliver accurate fitment, durability, and reliable performance.

De-Super Heater

A De-Super heater is used to reduce superheated steam temperature by controlled water injection, ensuring that steam reaches the required process temperature without affecting pressure and flow stability. We provide high-performance De-Super heater solutions that ensure precise steam temperature control, improved equipment life, and stable process performance across various industrial applications.

Super Heater Coils

Super heater coils are critical components in boiler systems, responsible for increasing steam temperature beyond saturation to produce dry and high-energy superheated steam required for industrial processes and power generation.

OUR **IBR PRODUCTS**

Swaged End Tubes

Swaged end tubes play a critical role in boiler performance by ensuring proper tube expansion, secure tube-to-tube sheet joints, and enhanced heat transfer characteristics. Our solutions are focused on maintaining dimensional accuracy, metallurgical strength, and long service life under high pressure and temperature conditions.

PRS and PRDS System

PRS and PRDS systems are used to reduce and control steam pressure and temperature as per process requirements. These systems ensure safe steam distribution, stable operation, and reliable performance across industrial applications.
We provide efficient PRS and PRDS solutions designed for precise pressure regulation, controlled desuperheating, improved process safety, and smooth steam flow management in high-pressure boiler and steam systems.

Water Wall Panels

Water wall panels are critical boiler components responsible for heat absorption, steam generation, and furnace protection. We provide reliable water wall panel solutions that improve boiler performance, enhance heat transfer efficiency, and ensure long-term stability under high-temperature and high-pressure conditions.

OUR **NON-IBR AND OTHER PRODUCTS**

All Types of Ducting

MS ducting is used to transport and distribute air, gases, fumes, or dust within industrial and commercial systems. It acts as a closed pathway that connects equipment like blowers, fans, boilers, furnaces, and dust collectors to ensure controlled flow and proper ventilation.

All Types of Tanks

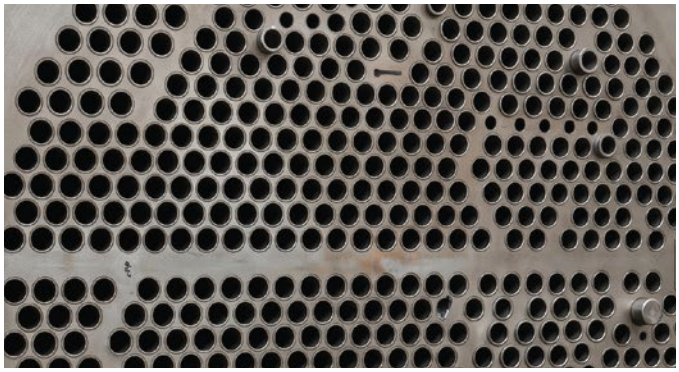
Tanks in a plant are used to store, process, mix, or control the flow of liquids and gases safely and efficiently.

APH Tube Assembly

An APH (Air Preheater) tube assembly is a part of a boiler system used to improve efficiency. Its main function is to recover heat from the flue (exhaust) gases and transfer it to the incoming combustion air before it enters the furnace.

Tube Sheet

A tube sheet is a plate with multiple holes where tubes are fixed (by welding or expansion) to keep them properly aligned and sealed.



OUR **NON-IBR AND OTHER PRODUCTS**

Sporger Headers

A sporger header is a perforated pipe (with small holes) that releases air in the form of fine bubbles into furnace or process system.

Coal Nozzles, Air Nozzles

Coal nozzles inject pulverized coal into the furnace for uniform distribution and efficient combustion.

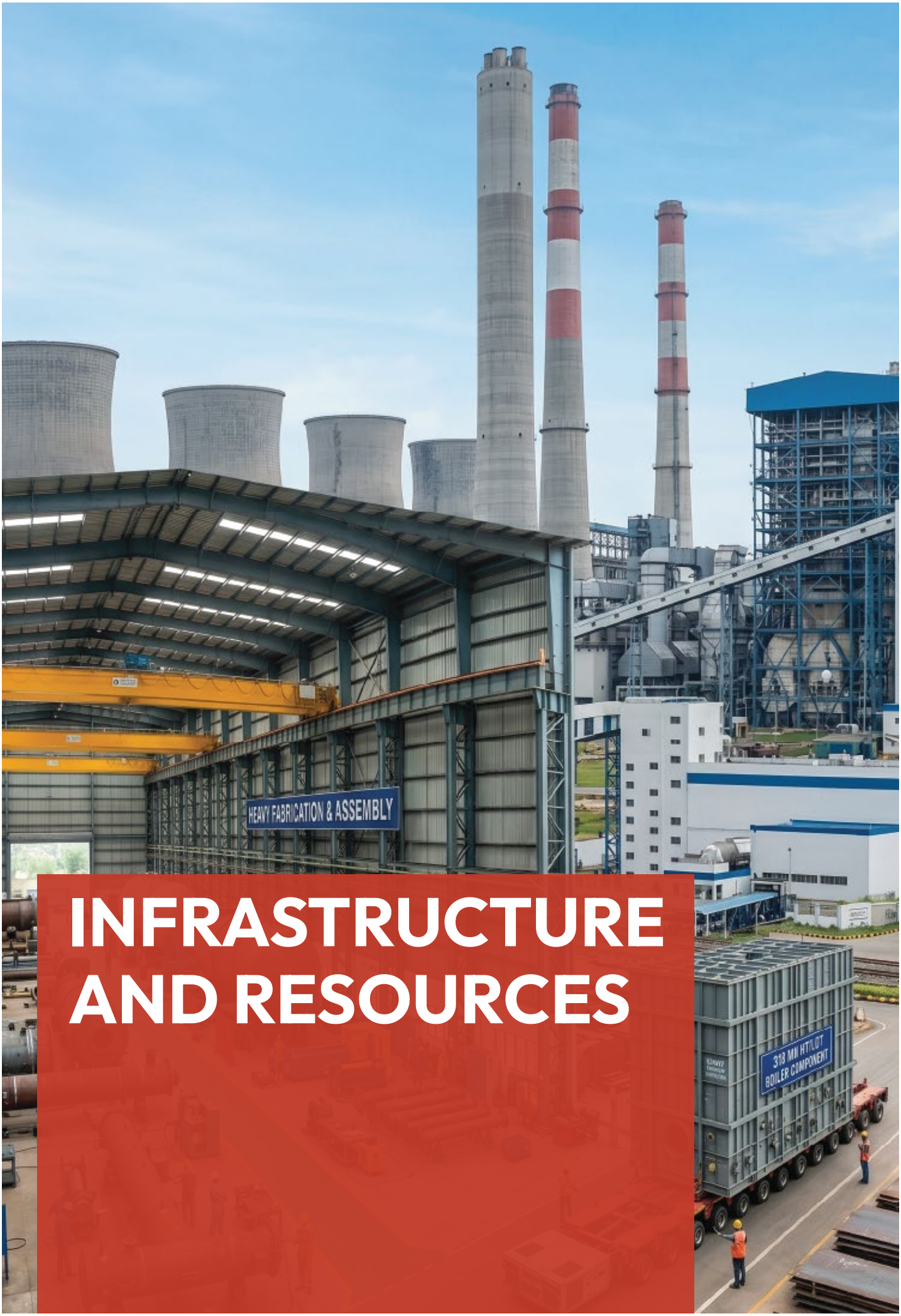
Air nozzles supply air to support complete coal burning and improve boiler efficiency.

Expansion Bellows

In any plant (like steam or process lines), pipes expand when temperature increases and contract when it decreases. Expansion bellows absorb this thermal movement, reduce stress on pipes and equipment, prevent damage or leakage, and also help in minimizing vibration.

Boiler Chimney

It creates natural draft (airflow) for combustion, helps in removing harmful gases like CO_2 and SO_2, and ensures safe dispersion of emissions away from the plant area, thereby maintaining proper boiler efficiency and environmental safety.



INFRASTRUCTURE AND RESOURCES

OUR **TOOLS AND EQUIPMENT**

Cethar Engineering Pvt. Ltd. is equipped with a comprehensive range of modern tools, equipment, and heavy machinery, which are treated as critical assets to ensure efficient and timely project execution. We maintain readiness with all essential resources required to handle routine operations as well as emergency situations in power plant boiler systems.

CEPL inventory includes advanced fabrication tools, welding machines, cutting equipment, hydraulic systems, lifting and material handling machinery, alignment and measurement instruments, and specialized maintenance tools. These resources enable us to carry out erection, repair, shutdown jobs, and maintenance activities with high precision and safety.

ARC 400IJ2
ARC 400IJ2

INDUSTRIES WE SERVE

INDUSTRIES

Industries We Serve

POWER
Reliable boiler solutions for efficient power generation across industries.

CEMENT
High-performance pressure parts for cement manufacturing and processing applications.

STEEL
Robust thermal solutions supporting efficient steel manufacturing operations worldwide.

CHEMICAL
Precision engineered equipment ensuring safe chemical processing under extreme conditions.

TEXTILE
Energy-efficient boiler systems enhancing modern textilemanufacturing productivity worldwide.

FOOD PROCESSING
Hygienic steam solutions supporting consistent food processing operations efficiently.

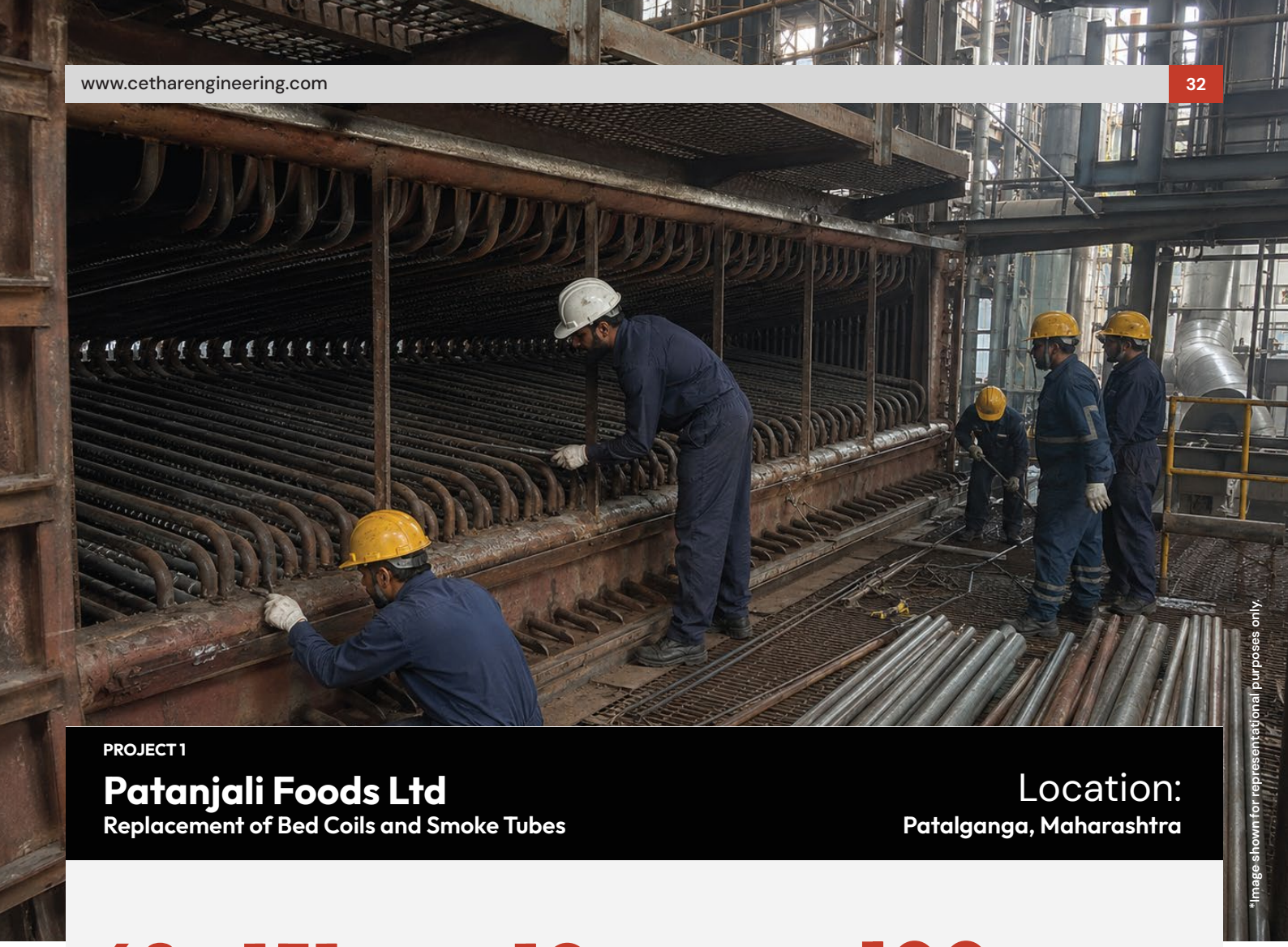
OIL & GAS
Reliable process equipment maximizing oil refining and gas production.

RUBBER
Durable steam systems improving rubber manufacturing efficiency and productivity.

PAPER & PULP
Efficient boiler technologies supporting sustainable paper and pulp production.

PHARMACEUTICAL
Clean reliable steam solutions meeting pharmaceutical manufacturing quality standards.

PROJECTS AND CERTIFICATES



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PROJECT 1

Patanjali Foods Ltd

Replacement of Bed Coils and Smoke Tubes

Location:
Patalganga, Maharashtra

68 & 151 Nos.
Coils & Smoke Tubes

10 DAYS
Shutdown Timeline

100% IBR
Compliance & Approval

Project Summary

Successfully executed the replacement of 68 bed coils and 151 smoke tubes at Patanjali Foods Ltd., Patalganga within a tight 10-day shutdown period. The project was carried out with proper planning, effective resource management, and strict adherence to safety, quality, and IBR requirements.

All activities were completed under close supervision, following standard safety protocols and zero-incident practices. The successful completion reflects our team's capability to handle multi-component boiler maintenance with efficiency, quality workmanship, and timely execution.

Technical Scope

The scope also covered complete coordination with IBR authorities for inspection, documentation, and approvals. The work was executed under strict safety protocols with a strong focus on zero-incident performance, and the project was successfully completed within 10 days, followed by testing, commissioning, and final handover.

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PROJECT 2

Laxmi Organic Industries Ltd.

Boiler Capacity Upgradation and Modification

Location:
Mahad, Maharashtra

22 → 30 TPH
Boiler Capacity Enhanced

11.5 kg/cm²
Working Pressure

17.25 kg/cm²
Hydraulic Pressure

PROJECT 3

33 → 38 TPH
Boiler Capacity Enhanced

11.5 kg/cm²
Working Pressure

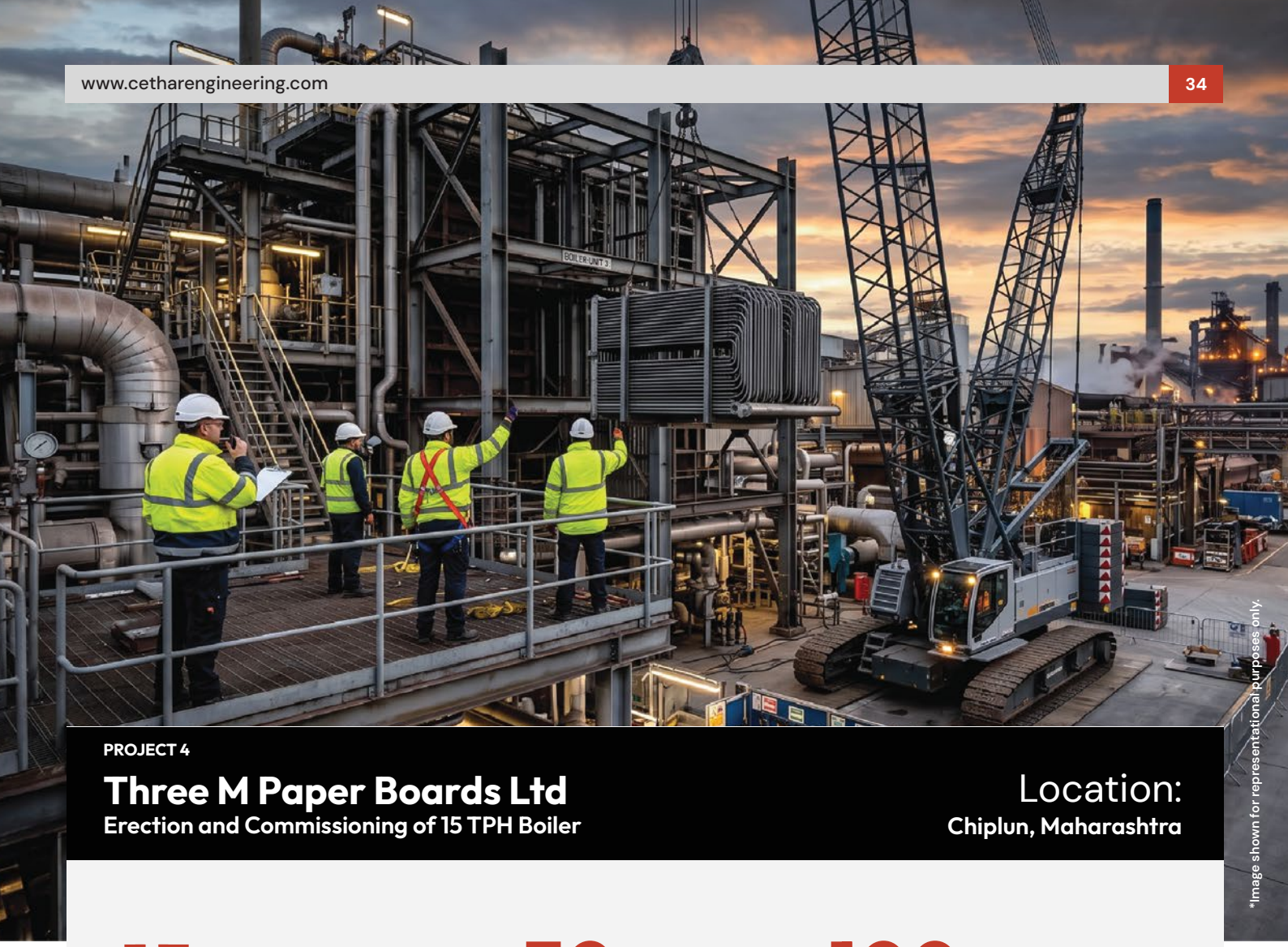
17.25 kg/cm²
Hydraulic Pressure

Project Summary

The project involved enhancing boiler capacities from 22 TPH to 30 TPH and 33 TPH to 38 TPH. Execution included design, supply, and commissioning with full IBR compliance and safety. The upgrade was systematically planned to increase steam output without compromising structural integrity, ensuring improved efficiency and long-term operational stability.

Technical Scope

The scope covered engineering and modification of critical pressure parts, including component erection, welding, and stringent quality control. The work involved full IBR formalities, stage-wise inspections, and hydraulic testing, concluding with final performance validation to ensure reliable steam generation as per technical specifications.



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PROJECT 4

Three M Paper Boards Ltd

Erection and Commissioning of 15 TPH Boiler

Location:
Chiplun, Maharashtra

15 TPH
Bi-drum Steam Boiler

30 DAYS
Project Timeline

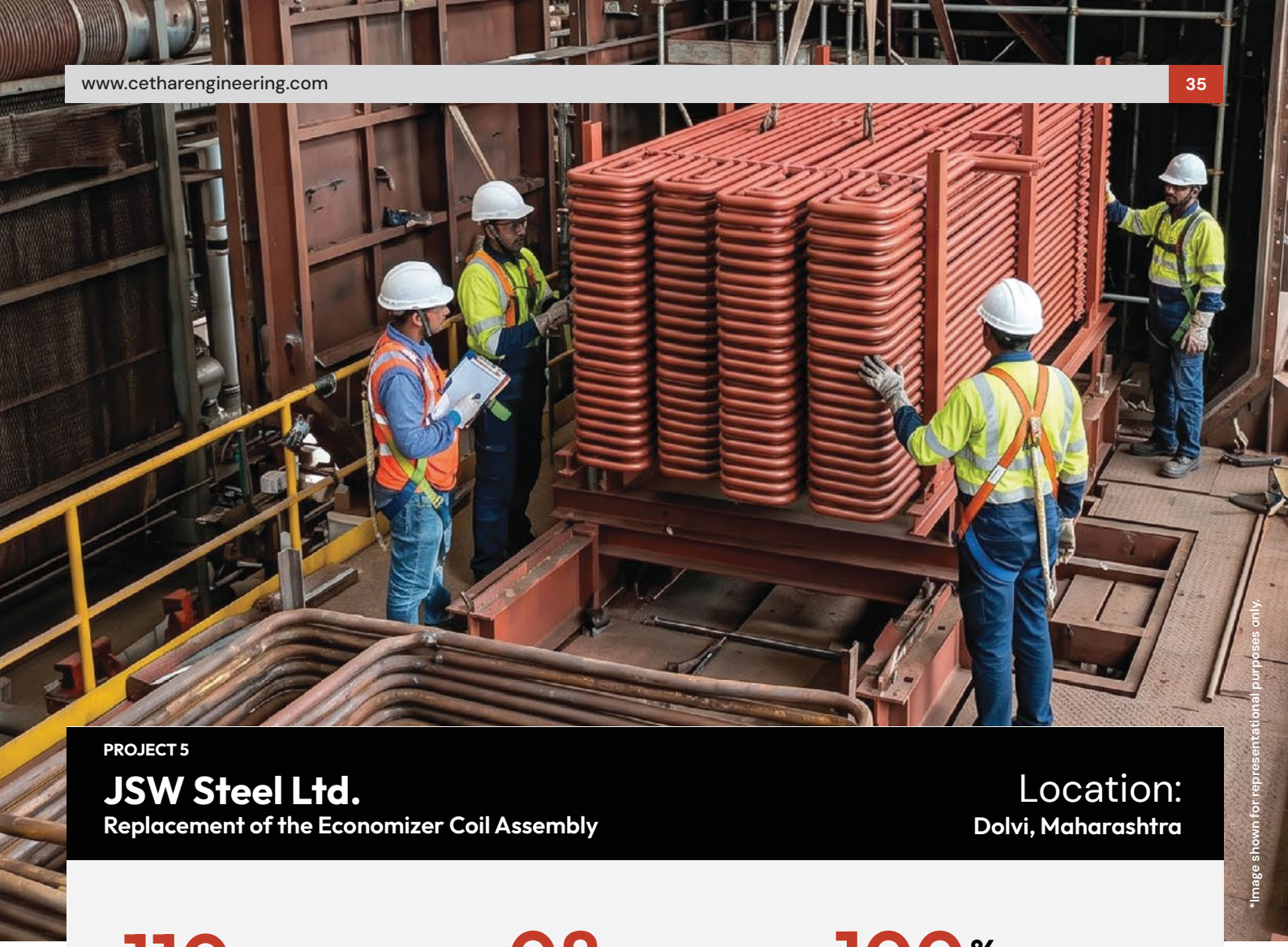
100% IBR
Compliance & Approval

Project Summary

The project involved the successful execution of complete erection, installation, and commissioning of a 15 TPH bi-drum steam boiler within an aggressive 30-day timeline, without compromising on quality and achieving full compliance with IBR standards and inspection protocols. The execution was carried out with strict adherence to safety practices, supported by highly skilled manpower and experienced supervision. Seamless coordination was maintained with the client, vendors, and statutory authorities to ensure smooth workflow and efficient project delivery. The project was systematically planned and executed, ensuring timely completion, operational reliability, and zero compromise on safety and quality standards.

Technical Scope

The scope included complete material handling, shifting, and heavy lifting activities, followed by erection of the boiler structure and IBR pressure parts with precise alignment. All fabrication, fit-up, and welding were executed in accordance with IBR norms, supported by stringent quality control measures and stage-wise inspections. The work also covered installation of connected pipelines, coordination with the Boiler Inspector for statutory approvals, and execution of hydraulic testing to validate system integrity. Final commissioning was carried out to ensure smooth, safe, and reliable boiler operation, with full compliance to technical specifications, quality assurance procedures, and safety standards.



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PROJECT 5

JSW Steel Ltd.

Replacement of the Economizer Coil Assembly

Location:
Dolvi, Maharashtra

110 Nos.
Economizer Coil Assemblies

08 DAYS
Project Timeline

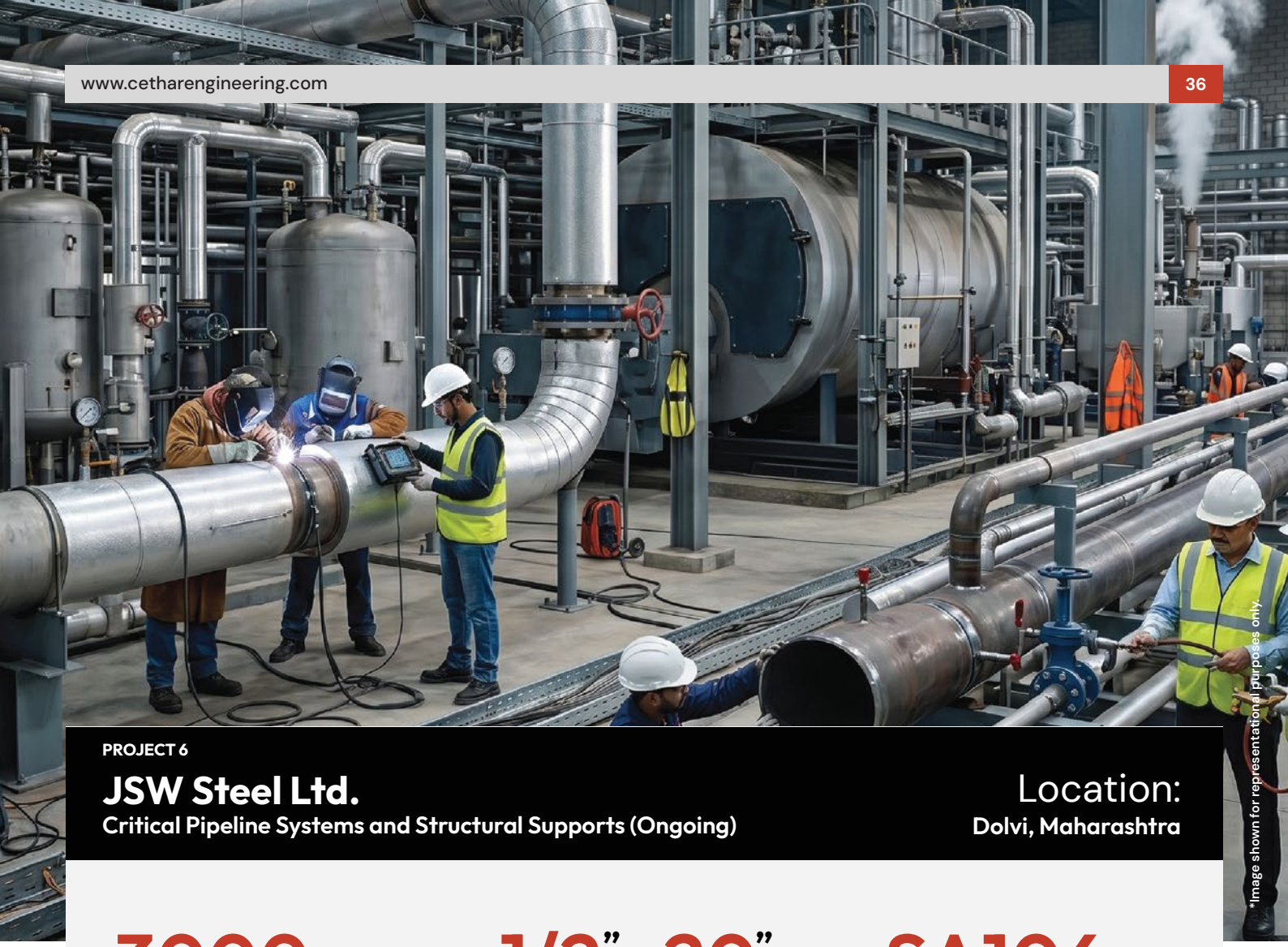
100% IBR
Compliance & Approval

Project Summary

Successfully executed the replacement of 110 nos. economizer coil assemblies at JSW Steel's Dolvi facility. The brownfield project was completed within an 8-day timeline, ensuring minimum downtime for the plant's steam generation cycle. The work involved coordinated planning, IBR documentation, stage-wise inspections, and approvals from the competent authority. The project was completed with strict adherence to timelines, quality standards, and safety protocols, ensuring smooth and efficient execution.

Technical Scope

The scope included the dismantling of existing coils and the installation of new assemblies with precise alignment. All fabrication, fit-up, and welding were executed in accordance with technical specifications and IBR norms. The work also covered stage-wise inspections by the Boiler Inspector to validate system integrity. Final activities focused on ensuring the system was ready for immediate, smooth operation, meeting all quality assurance and safety standards.



PROJECT 6

JSW Steel Ltd.

Critical Pipeline Systems and Structural Supports (Ongoing)

Location:
Dolvi, Maharashtra

3000 IM
Steam Pipeline Installation

1/2" → 20"
Size Range

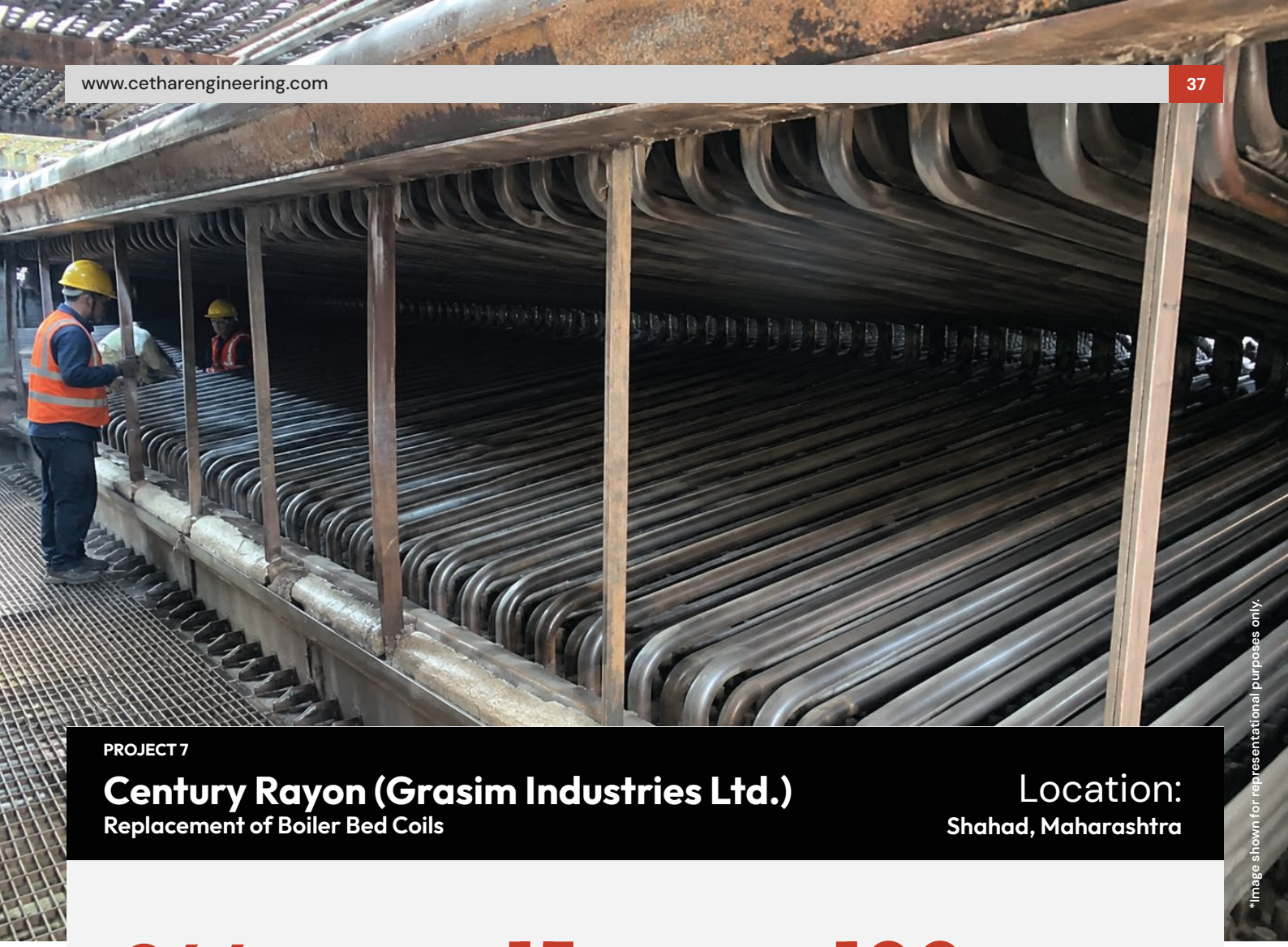
SA106 Gr.B
MOC

Project Summary

Currently executing a major piping infrastructure project involving the replacement and installation of critical pipelines. The project focuses on seamlessly integrating new piping systems into the existing plant architecture while ensuring minimal disruption to ongoing steel production. It includes careful planning, safe dismantling, precise installation, alignment, welding, inspection, and coordination with plant operations to maintain productivity and operational continuity throughout the execution phase.

Technical Scope

The project scope includes detailed engineering, procurement and supply of MOC-SA106 Gr.B materials, along with the installation of new pipe racks, supports, and associated piping systems. Key activities involve precision fabrication, alignment, welding, NDT testing, and quality inspection to ensure safe and reliable execution. Special consideration is also given to thermal expansion requirements for pipelines up to 20" diameter in Schedule 40/80, ensuring long-term performance within the existing plant operating conditions.



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PROJECT 7

Century Rayon (Grasim Industries Ltd.)

Replacement of Boiler Bed Coils

Location:
Shahad, Maharashtra

244 Nos.
Bed Coils

15 DAYS
Project Timeline

100% IBR
Compliance & Approval

Project Summary

Successfully executed the replacement of 244 bed coils at Century Rayon (Grasim Industries Ltd.) in full compliance with IBR requirements and applicable industry standards. The project included safe dismantling of existing coils, supply and installation of new bed coils, alignment, welding, inspection, and testing as per approved procedures.

All welding activities were carried out by qualified personnel, followed by required quality checks to ensure reliability and performance. The entire project was completed within a tight 15-day timeline, with strict adherence to technical specifications, quality standards, safety protocols, and zero-incident execution.

Technical Scope

The scope included dismantling of existing coils, material handling, installation of new bed coils, precision alignment, fit-up, and welding as per approved WPS/PQR. Stage-wise inspection, quality checks, NDT, and pressure/hydro testing were carried out to ensure joint reliability, structural integrity, and leak-proof performance.

The work also involved complete coordination for IBR documentation, inspection, and statutory approvals, ensuring efficient execution and trouble-free operation.

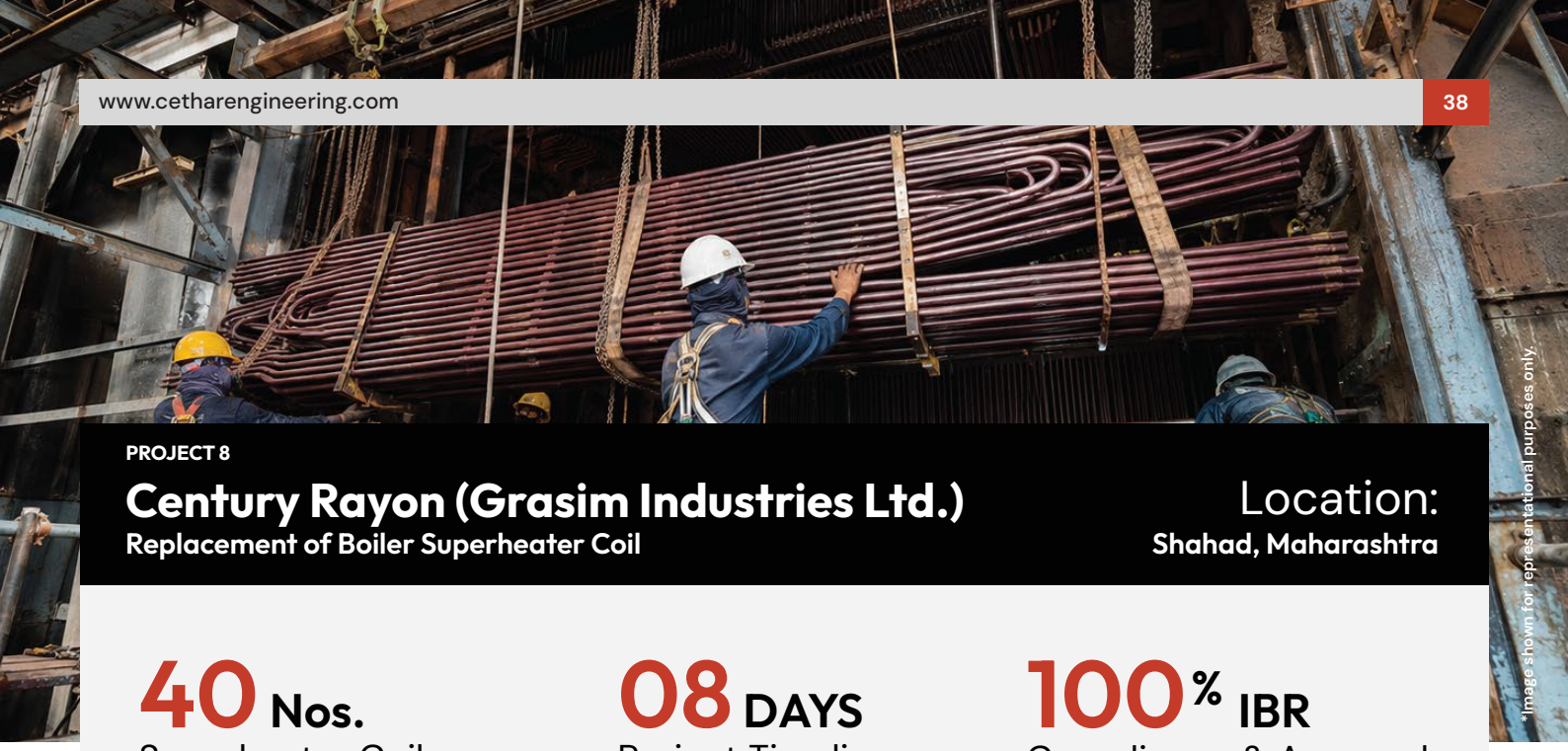


*Image shown for representational purposes only.

PROJECT 8

Century Rayon (Grasim Industries Ltd.)

Replacement of Boiler Superheater Coil

Location:
Shahad, Maharashtra

40 Nos.
Superheater Coil Replacement

08 DAYS
Project Timeline

100% IBR
Compliance & Approval

Project Summary

Successfully executed the replacement of 40 superheater coils, ensuring the boiler's steam temperature parameters were restored to peak efficiency. The work was carried out within the planned annual maintenance shutdown.

Technical Scope

Scope included the dismantling of old assemblies and the installation of new superheater coils. All activities, including alignment and high-pressure welding, were performed under strict IBR formalities and quality standards.

PROJECT 9

Major Piping (Ongoing)

Fabrication and Erection of IBR Piping Systems

2130 IM
Area

80 SCH
Specification

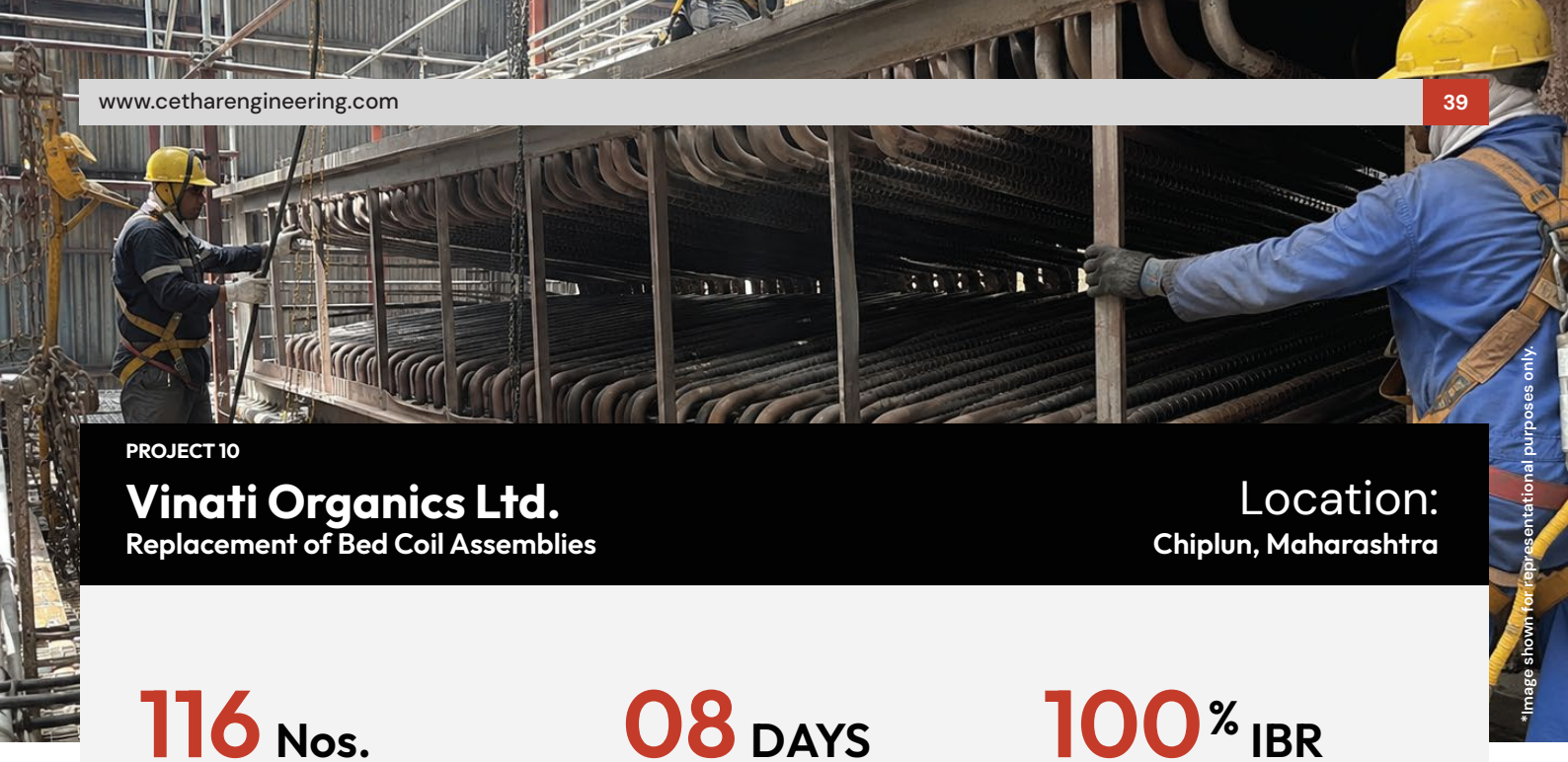
SA106 Gr.B
MOC

Project Summary

Currently managing a high-volume piping project for Century Rayon. The project involves the fabrication and erection of critical IBR and Non-IBR piping systems to upgrade the plant's utility distribution network.

Technical Scope

Using SA106 Gr.B material (Schedule 80), the work covers 2130 inch-meters of piping. Scope includes supply, installation of pipe racks, NDT testing, and seamless integration with existing plant systems under stringent safety protocols.



PROJECT 10

Vinati Organics Ltd.

Replacement of Bed Coil Assemblies

Location:
Chiplun, Maharashtra

116 Nos.
Bed Coil Replacement

08 DAYS
Project Timeline

100% IBR
Compliance & Approval

Project Summary

Successfully executed the rapid replacement of 116 bed coils at Vinati Organics Ltd., Chiplun within a fast-track timeline of 8 days. The project was completed with high precision, ensuring minimum boiler downtime while maintaining strict quality standards and site safety protocols.

Technical Scope

The scope included systematic dismantling of existing coils, installation, alignment, fit-up, and welding of new units as per IBR norms. Stage-wise inspections, statutory approvals, and final hydraulic testing were carried out to ensure safe, reliable, and compliant operation.

PROJECT 11

MPS & LPS Steam Piping

Fabrication and Erection of Steam Pipeline

1900 IM
Area

16 DAYS
Project Timeline

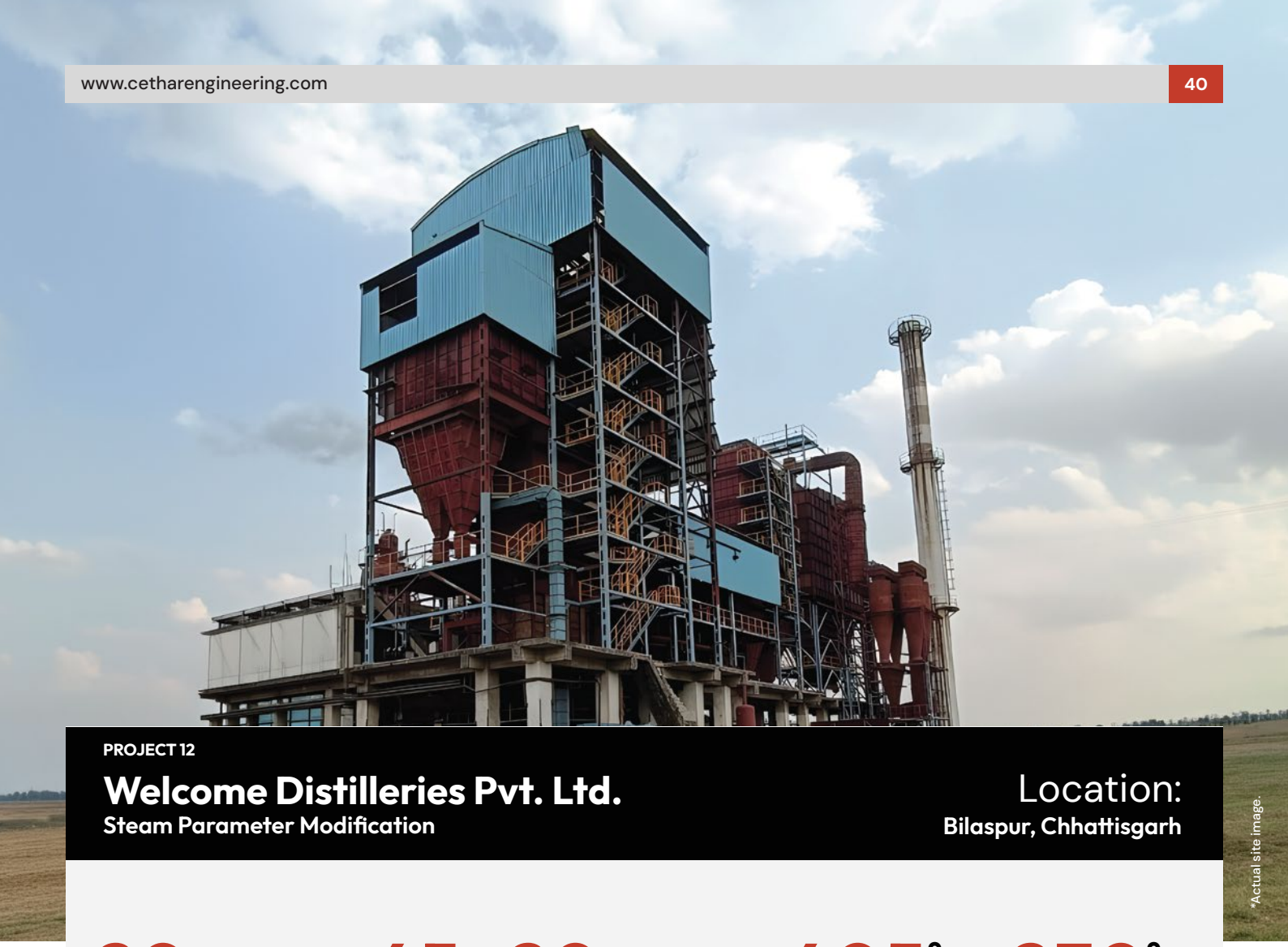
SA106 Gr.B
MOC

Project Summary

Executed the fabrication and erection of Medium Pressure Steam (MPS) and Low Pressure Steam (LPS) piping. This 1900 inch-meter project was completed within 16 days, providing a robust distribution system for the Chiplun facility.

Technical Scope

Working with SA106 Gr.B material, the sizes ranged from 1/2" to 12". The scope included structural fabrication, welding, and compliance with all IBR formalities for a reliable steam network.



*Actual site image.

PROJECT 12

Welcome Distilleries Pvt. Ltd.

Steam Parameter Modification

Location:
Bilaspur, Chhattisgarh

20 TPH
Boiler Capacity

45 → 20 kg/cm²
Pressure Adjustment

405°C → 230°C
Temperature Reduction

Project Summary

The project involves the comprehensive revamp of an existing boiler, including BOP systems like FHS, AHS, and Bag Filters. It features a strategic derating from 45 kg/cm² to 20 kg/cm² without pressure part modifications, ensuring full IBR compliance. The system is successfully converted from spent wash to 100% rice husk firing. By incorporating a detailed RLA study, the project ensures long-term structural integrity. The execution focuses on enhancing operational flexibility and efficiency while maintaining strict safety and quality standards.

Technical Scope

The scope includes engineering for fuel conversion, steam piping stress analysis, and the installation of a flue gas bypass duct. Execution covers the erection of ducting, refractory, and electrical systems along with IBR-compliant piping. The work involves RLA thickness measurements to validate the boiler's health for revised parameters. Final stages comprise hydro testing, pre-commissioning, and BOP integration. The project concludes with final commissioning and operational support to ensure reliable, high-performance rice husk–based steam generation.

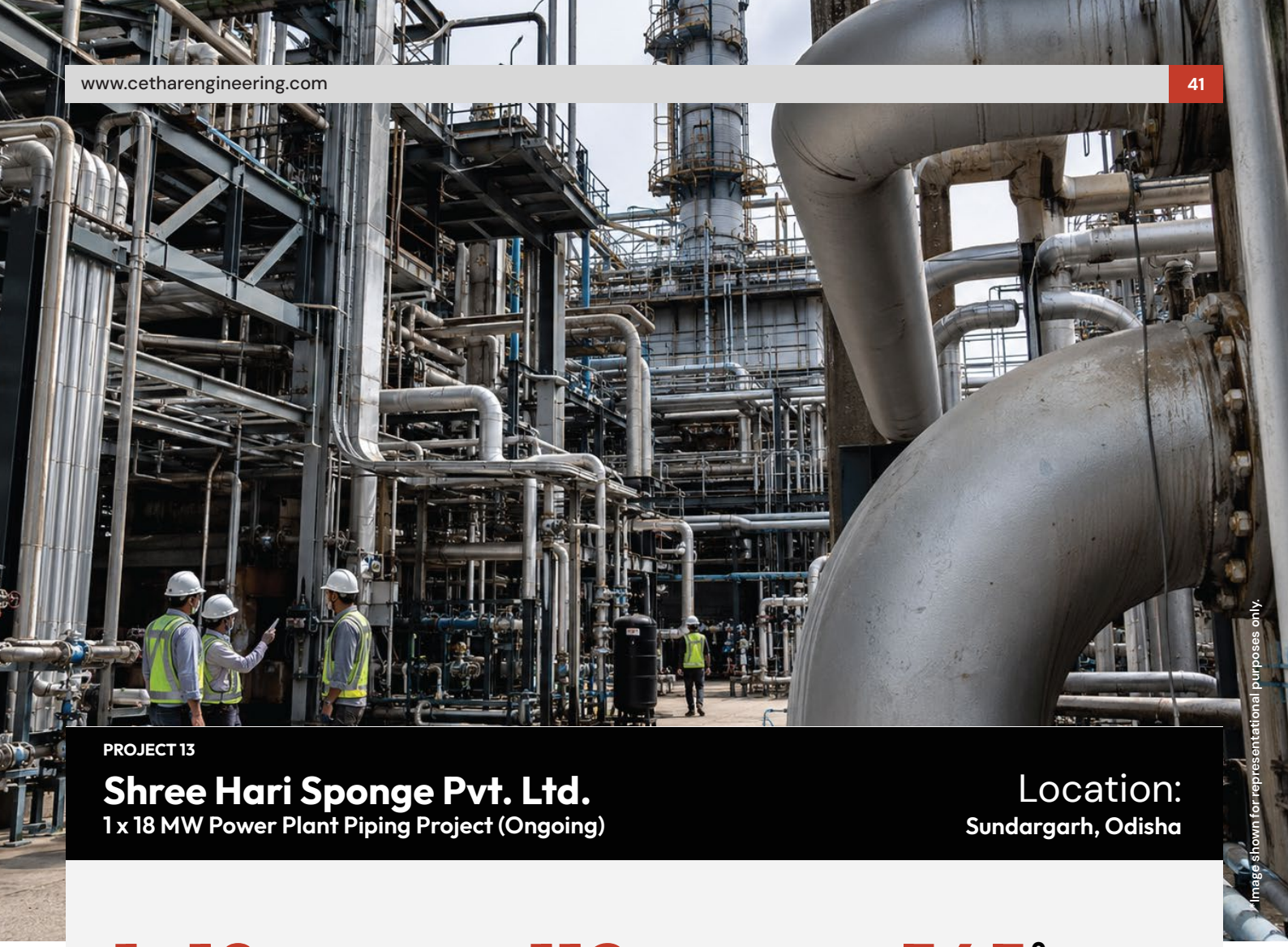


Image shown for representational purposes only.

PROJECT 13

Shree Hari Sponge Pvt. Ltd.

1 x 18 MW Power Plant Piping Project (Ongoing)

Location:
Sundargarh, Odisha

1 x 18 MW
Power Plant Capacity

112 kg/cm²
Design Pressure

545 °C
Design Temperature

Project Summary

Currently executing the 1 x 18 MW Power Plant Piping Project for Shree Hari Sponge Pvt. Ltd. at Sundargarh, Odisha. The project involves detailed engineering, manufacturing, supply, erection, testing, and commissioning assistance for the complete power cycle steam piping system.

The work is being executed with a strong focus on quality workmanship, safety compliance, timely completion, and statutory IBR approvals, supporting reliable piping performance for captive and industrial power plant operations.

Technical Scope

The scope covers complete engineering design, piping layouts, stress analysis of critical lines, fabrication drawings, and supply of IBR / Non-IBR piping, fittings, valves, supports, spring hangers, insulation, and associated accessories.

Execution includes piping systems designed for 112 kg/cm² design pressure and 545°C design temperature, including main steam piping, common steam distribution header, PRDS stations, boiler feed water lines, deaerator piping, cooling water, DM water, instrument air, drain and vent lines.

CERTIFICATES

ROBUST CERTIFICATIONS

Certificate of Registration

This Certificate certify that the Quality Management System of

CETHAR ENGINEERING PRIVATE LIMITED

SURVEY NO. 81/12, PLOT NO. 1772, KARIVALI KHARBAO LINK ROAD, NEAR KARIVALI LAKE, KARIVALI - 421302. BHIWANDI TALUKA, THANE DISTRICT, MAHARASHTRA STATE, INDIA.

has been audited and found to conform to the requirements of

ISO 9001 : 2015

for the following scope:

MANUFACTURE, FABRICATION, SUPPLY, INSTALLATION AND SERVICE OF BOILERS, PRESSURE PARTS, INDUSTRIAL EQUIPMENTS, STORAGE TANKS, PIPINGS AND ENGINEERING PRODUCTS

(IAF CODE 17, NACE CODE 25.30) Rev-2

Certificate No. : 805791/2026/R

Initial Registration Date : 15/07/2026

Issue date : 15/07/2026
Date of Expiry* : 14/07/2029

1st Surv. Due : 14/07/2027
2nd Surv. Due : 14/07/2028

MAYANK SHARMA
(DIRECTOR)

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

eiac مركز الإمارات العالمي للاعتماد Emirates International Accreditation Centre

CB-QMS-115

ROBUST CERTIFICATIONS PVT. LTD.

H-15, Sector-63, Noida, Gautam Buddha Nagar- 201304, Uttar Pradesh, Ph:0120-4258541
Email: Admin@robustcertifications.com | Website: www.robustcertifications.com

The Registration is not a Product Quality Certificate,
**Subject to successful completion of surveillance audits,*
Visit for verification on www.robustcertifications.com
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ISO 9001:2015 Quality Management System

CERTIFICATES

Sadekar Enviro Engineers Private Limited

Plot No. A-95, Road No. 16, Kisan Nagar Road, M.I.D.C. Wagle Industrial Area, Thane - 400 604. Maharashtra State, India.
✆ : (91-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3324 • E-mail : prs@sadekarenviro.com / psadekar5@gmail.com

SAVE WATER
SAVE LIFE

Date: 30th March 2026

To,

M/s. CETHAR ENGINEERING,

31/23, Sheriff Devji Street,
2nd Floor, Parkar House,
Masjid Bunder (West), Mumbai - 400003.
Maharashtra, India

Sub: Appreciation Letter

Dear Sir,

We would like to take this opportunity to express our sincere appreciation to M/s. Cethar Engineering for the successful execution of **Boiler Revamping and IBR Piping Modifications**.

The team has consistently demonstrated a high level of professionalism, cooperation, and dedication throughout our association. The prompt responsiveness to queries, along with your proactive approach has been truly commendable.

We particularly value your team's ability to maintain clear communication, and ensure quality in deliverables. Such commitment has greatly contributed to smooth and efficient operation since commissioning.

It has been a pleasure working with your organization, and we look forward to continuing this collaboration in the future.

Thank you once again for your outstanding support.

For Sadekar Enviro Engineers Pvt Ltd

Authorized Signatory

HIGH COD/TDS FACILITY : Plot No. E-133 & P-196, Tarapur MIDC, Boisar, Dist. Palghar - 401506. ✆ : 8591159165 / 7304633868
E-mail: evaporationsystem@sadekarenviro.com • Website : www.sadekarenviro.com

GOA UNIT : 310, Dempo Towers, EDC Patto, Panaji- 403001, Goa State, India. ✆ : (0832) 2437048 / 2437164
E-mail: sadekarenviro@rediffmail.com • CIN No. U45209MH1998PTC-116379

Boiler Revamping and IBR Piping Modifications

CERTIFICATES

Trambak Rubber Industries Pvt. Ltd.

To,

M/s. CETHAR ENGINEERING PVT. LTD.,

Thane, Maharashtra.

Subject: Letter of Appreciation for Exemplary Performance and Completion of Turnkey Boiler Maintenance Work Ahead of Schedule.

Dear Team CETHAR ENGINEERING PVT. LTD.,

We are writing to express our sincere appreciation and commendation to the entire team at M/s. CETHAR ENGINEERING PVT. LTD., Thane for your outstanding performance in executing the turnkey boiler maintenance work at our manufacturing facility. Your commitment to safety, professionalism, and prompt delivery has been highly commendable.

While the officially allotted shutdown window was scheduled from June 30, 2026, to July 8, 2026, your team demonstrated exceptional efficiency by successfully completing the entire scope and safely resuming boiler operations on July 6, 2026, at 3:00 PM. This remarkable feat resulted in releasing the boiler back into operations a full 40 hours ahead of schedule.

Keep up the brilliant work!

Yours Sincerely,

TRAMBAK RUBBER INDUSTRIES PVT. LTD. SINNAR

Mr. Rajendra Fultankar

Chief Executive Officer

Trambak Rubber Industries Pvt. Ltd.

Factory : Plot No. A-81 to A-87 & A-106 to A-112, Sinnar Taluka Ind. Co-op. Estate Ltd., Sinnar 422 112. Dist. Nashik (Maharashtra)
Office : 'Maruti', Tagore Nagar, Nashik Pune Road, Nashik 422 006. Maharashtra, India. **Tel.:** 0253 2410069
ISO / TS 16949 : 2009 **Website :** www.trambakrubber.com

Turnkey Boiler Maintenance Work

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OUR **CLIENTS**

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JSW Steel

AM/NS INDIA

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TECHNOCRAFT INDUSTRIES INDIA LTD.

SAINT-GOBAIN

ASTEC

ADITYA BIRLA GRASIM

SPL Supreme Petrochem Ltd GLOBAL SUPPLIER OF STYRENICS

MB®

SEE Sadekar Enviro Engineers Pvt. Ltd.

LAXMI ORGANIC INDUSTRIES LTD

Vinati Organics Limited

VEERAL ORGANICS Private Limited

THREE M PAPER BOARDS LIMITED

PRIVI SPECIALITY CHEMICALS LIMITED

Kopran

SHREE HARI Creating Standards

Welcome Distilleries Private Limited

NUTAN ISPAT & POWER PVT. LTD.

and many more...

CETHAR ENGINEERING PRIVATE LIMITED

The Boiler Specialists

CONTACT US

Administrative Office:
31/23, Sheriff Devji Street, 2nd Floor, Parkar House, Masjid Bunder (West), Mumbai – 400003, Maharashtra State, India.

Registered Office & Works:
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Head Office:
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Branch:
Sr. No. 188/1/2/2, Devi Ka Malla, Old Agra Road, Malegaon - 423203. Nashik District. Maharashtra State, India.

Branch:
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Email:
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www.cetharengineering.com

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CIN:
U28199MH2025PTC457597

Certification
ISO 9001:2015 certified