

# AKSHAY RATHOD

## IBR Competent Person | Boiler Operation Engineer

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### SUMMARY

Senior Engineer (Mechanical) with 5+ years of experience in Boiler Operations and Maintenance, specializing in steam boiler operations and cogeneration systems to optimize energy efficiency and power generation. Proficient in conducting inspections, troubleshooting, and optimizing boiler systems to ensure compliance with statutory safety and operational standards, including good understanding about Indian Boiler Regulation (IBR) 1950. Skilled in fuel handling, energy efficiency improvements, and maintaining operational reliability. Strong understanding of thermodynamics, steam generation, and emergency handling procedures, with extensive experience in improving plant performance and operational safety.

### EXPERIENCE

#### Senior Engineer (Mechanical)

**Vilas Sahakari Sakhar Karkhana Ltd.**

📅 05/2023 - Present 📍 Latur, India

- Responsible for Operation and Maintenance of 18 MW Cogeneration Plant.
- Participated in the renewal process of the Certificate for Use of Boiler (Form VI), conducting mandatory inspections such as open inspection, hydraulic pressure testing, and safety valve performance testing following modifications to ensure compliance with Indian Boiler Regulations (IBR).
- Managed comprehensive documentation and reporting for inspection activities, test results, and certification records, ensuring accuracy and readiness for regulatory audits.
- Successfully improved operational efficiency while ensuring safety and compliance throughout the process.
- Skilled in energy sustainability initiatives and developing cost-cutting project ideas to reduce operational expenses.
- Conducted troubleshooting and root cause analysis of boiler operations, ensuring optimal performance and compliance with industry standards through effective coordination with colleagues.

#### Assistant Engineer (Mechanical)

**Deccan Sugar Pvt Ltd.**

📅 07/2019 - 05/2023 📍 Yavatmal, India

- Acquired practical knowledge of plant operations, including start-up and shutdown procedures, steam cycle management, fuel combustion processes, water treatment systems, and emission control technologies, ensuring safe and efficient plant functioning.
- Gained in-depth knowledge of boilers and their components, including high-pressure steam boilers, economizers, superheaters, air preheaters, and deaerators, along with their design, operation, and maintenance requirements.
- Developed a comprehensive understanding of cogeneration systems, focusing on the efficient utilization of steam for simultaneous power generation and process heating, optimizing energy consumption and plant performance.
- Studied material properties for boiler components, ensuring high-temperature strength and corrosion resistance, while managing plant operations as Shift Engineer, ensuring safety, reliability, and process optimization.

### SKILLS

IBR Related Documentation, IBR Forms and Regulations, Boiler Repairs and Modification Approval, Non Destructive Testing, Failure Analysis and Root Cause Investigation, Safety Protocols and Emergency Handlings, Preventive maintenance and Shutdown Planning, Manpower Handling, Energy Conservation and Cost Optimization, Fuel Management, Manufacturing Processes, Team Coordination.

### KEY ACHIEVEMENTS



#### Achieved 100% IBR Compliance

Successfully participated in inspection, testing, and IBR certification of 7+ boilers, ensuring 100% safety compliance and operational reliability.



#### Optimized Plant Efficiency

Minimized losses to enhance overall plant efficiency, thereby reducing fuel consumption.

### EDUCATION

#### Bachelor of Mechanical Engineering

**Savitribai Phule Pune University**

📅 06/2015 - 05/2018 📍 Pune, India

#### Diploma in Mechanical Engineering

**Government Polytechnic, Nagpur**

📅 2012 - 2015 📍 Nagpur, India

### LANGUAGES

#### English

Proficient



#### Marathi

Native



#### Hindi

Native



### CERTIFICATIONS

**IBR Competent Person for Inspection and Certification of Boilers (Issued by Central Boiler Board)**

**Boiler Operation Engineer (Issued by Directorate of Steam Boilers, Govt of Maharashtra)**

**ASNT NDT LEVEL II IN UT & RT (Issued by SPARK Institute of Non-Destructive Testing)**