RAJESH KUMAR RAJPUT

Electrical Engineer – Generator Testing, Diagnostics & Rotating Equipment Specialist
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PROFESSIONAL SUMMARY

Electrical Engineer with 13 years of experience in testing, inspection, diagnostics, fault investigation, root cause analysis, and project execution support for large rotating electrical machines. Experienced in generator maintenance and overhaul projects ranging from 15 MW to 600 MW. Skilled in rotor and stator condition assessment, insulation evaluation, electrical testing, outage support, and technical reporting. Extensive exposure to BHEL, Shanghai Electric, Jinan, Jeumont-Schneider, HEC, and Global VPI generators used in power plants and industrial facilities.

CORE COMPETENCIES

- Generator Testing & Diagnostics
- Root Cause Analysis (RCA)
- Rotor & Stator Inspection
- IR & PI Testing
- Rotor Inter-turn Testing
- Winding Resistance Measurement
- AC Pole Drop Testing
- Rotor Heating Tests
- Condition Assessment
- Technical Reporting
- Generator Outage Support
- Quality Assurance

PROFESSIONAL EXPERIENCE

JB Advanced Engineering Ltd. | Electrical Engineer | Feb 2023 – Present

- Inspection and testing of large generators and motors.
- Electrical diagnostics and fault investigation.
- Root cause analysis of generator failures.
- Technical reporting and maintenance recommendations.
- Support for generator overhaul, rewind, retaining ring, slip ring, and stator repair projects.

Indian Engineering Company | Electrical Engineer | Jan 2013 – Feb 2023

- Maintenance and troubleshooting of rotating electrical equipment.
- Electrical testing and condition monitoring.
- Generator and motor inspection activities.

• Preventive and corrective maintenance support.
• Project execution and technical documentation.

EDUCATION

Diploma in Electrical Engineering – Sigma University (2013)

MAJOR PROJECT EXPERIENCE

• NFL Bathinda – 15 MW Generator (Jeumont-Schneider): Stator and rotor fault investigation, testing, inspection, and RCA.

• JSW Energy Rajasthan – 135 MW Generator Fleet: Rotor and stator inspections, testing, condition assessment, slip ring replacement support, retaining ring projects, stator bar and wedge replacement support.

• Ramswaroop Industries Kharagpur – 20 MW Generator: Inspection and testing associated with stator connection bar replacement.

• Sandur Manganese & Iron Ores Ltd., Karnataka: Rotor earth fault investigation and diagnostic testing.

• Nirma Ltd., Gujarat – 70 MW BHEL Generator: Inspection and testing during retaining ring maintenance activities.

• Inland Power Ltd., Jharkhand – 63 MW Generator: Pre- and post-maintenance testing, rotor and stator condition assessment.

• Vedanta CPP, Jharsuguda – 135 MW Water-Cooled Generator: Inspection and testing associated with rotor slip ring replacement.

• ACB India Ltd., Korba – 135 MW HEC Generator: Inspection, testing, insulation validation, and quality verification during rotor rewind project.

• JSW Energy Barmer – 135 MW Generators: Rotor and stator inspections across multiple units, outage support, and condition assessment.

DEC make Hydro generator – 35 MW Hydro Generator: Stator coil acceptance testing during stator rewinding project, quality verification, condition assessment, and technical reporting.

Bhel make 13 MW Hydro Generator: Electrical testing, fault investigation, root cause analysis, condition assessment, and maintenance recommendations.

• JSW Bellary – 130 MW Hydrogen-Cooled Generator: Inspection, testing, CC bolt heating investigation, and wedge assessment.

• JSL Jajpur – 125 MW Generator: Retaining ring inspection, wedge replacement support, testing, and maintenance planning.

• DB Power Ltd. – 600 MW BHEL Generator: Rotor inspection, electrical testing, and quality assurance during J-strap replacement project.

LANGUAGES

English, Hindi, & Gujarati

PROFILE HIGHLIGHTS

• 13+ Years of Industry Experience
• Generator Ratings: 15 MW to 600 MW
• Air-Cooled, Hydrogen-Cooled & Water-Cooled Generators
• Specialized in Inspection, Testing, Diagnostics & RCA
• Extensive Power Plant Outage Experience
• Experience with BHEL, Shanghai Electric, Jinan, HEC, Global VPI and Jeumont-Schneider Generators