TEJAS J. NAIK

PLANT ENGINEERING & RELIABILITY LEADER | ELECTRICAL, AUTOMATION & CAPEX | STEEL & CONTINUOUS-PROCESS MANUFACTURING

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PROFILE SUMMARY

- **Plant Engineering & Maintenance Leader:** Achievement-driven professional with **over 16 years of experience** across plant engineering, maintenance, projects, automation, utilities and reliability within steel, cold rolling and continuous-process manufacturing environments, progressing from in-plant training to Head-level responsibility.
- **Engineering Operations Head:** Currently leading **Maintenance & Projects at Theis Precision Steel India Pvt. Ltd.**, managing multidisciplinary engineering operations, asset reliability, modernization, maintenance planning, critical breakdown resolution and project execution across the plant.
- **Electrical & Automation Authority:** Possessing deep hands-on expertise across **66/11 kV power systems, HT/LT distribution, PLC/SCADA, AC/DC drives, instrumentation, rolling mills, annealing, pickling, slitting, hydraulics & pneumatics**, with wide experience in legacy-system modernization.
- **Enterprise-Scale Engineering Stewardship:** Directing an engineering portfolio encompassing a **64-member team, ₹2 Cr annual maintenance budget, CAPEX/projects up to ₹10 Cr and 25+ major machines/process lines**, while sustaining approx. **97% machine availability** on available machine time.
- **Problem-Solving & Execution Leader:** Leveraging strong **problem-solving, manpower management and leadership** capabilities to resolve complex engineering challenges through hands-on execution and technical expertise.

CORE COMPETENCIES

- Plant Engineering & Maintenance Leadership
- Electrical & Instrumentation Management
- Asset Reliability & Performance Management
- CAPEX & Engineering Project Management
- Plant Modernization & Revamping
- Industrial Automation & Control Systems
- Maintenance Strategy & Shutdown Planning
- Electrical Power & Utility Infrastructure
- Commissioning & Start-up Management
- Energy & Utility Management
- Maintenance Cost & Critical Spares Management
- Vendor, OEM & Technical Partner Management

EDUCATION

- **Bachelor of Electrical Engineering** | Veer Narmad South Gujarat University (VNSGU) | **2008**

CERTIFICAITONS & PROFESSIONAL DEVELOPMENT

- Automation Training | NCVT, Surat
- Best Maintenance Practices in LV Switchgear | L&T Vadodara LT02
- C & C++ Course | SSI
- 5S, SPC & SQC Tools | Professional Exposure

NOTABLE ACCOMPLISHMENTS ACROSS THE CAREER

Area	*Achievement*
Engineering Leadership	Led a **64-member multidisciplinary team**, comprising **12 engineers, 12 electricians and 40 fitters/technicians**, across plant engineering and maintenance operations.
Asset Reliability	Sustained approximately **97% machine availability** on available machine time across a diverse manufacturing asset base through reliability-focused engineering and maintenance interventions.
Maintenance Portfolio Management	Directed an annual maintenance portfolio of approximately **₹2 Cr.**, balancing asset reliability, critical-spares requirements, maintenance priorities and production needs.
CAPEX & Project Leadership	Led **CAPEX and modernization projects up to ₹10 Cr**, spanning feasibility, budgeting, technical evaluation, vendor coordination, installation, commissioning and stabilization.
Manufacturing Asset Stewardship	Held engineering and maintenance responsibility for **25+ major machines/process lines**, covering cold rolling mills, slitting/process lines, annealing systems and associated plant equipment.
Electrical Power Infrastructure	Managed plant power infrastructure with **2,450 kVA contract demand** and **6.3 MVA transformer capacity**, covering HT/LT distribution, switchgear, protection and utility coordination.
Renewable Energy Project	Led installation and commissioning of a **746 kW rooftop solar power plant** equipped with **Trina Solar modules and Solis inverters**, adding renewable power generation capability to the plant infrastructure.

TECHNICAL SKILLS

- **Electrical Power Systems:** 66 kV / 11 kV Systems | HT/LT Distribution | Transformers | VCBs | SF6 Circuit Breakers | Switchgear | MDB/PDP Panels | PCC/MCC Panels | Motors
- **PLC & Industrial Automation:** Siemens S7-300 | S7-400 | S7-1200 | S7-1500 | GE Fanuc | Delta PLC | Allen-Bradley SLC | Lenze
- **SCADA, HMI & Communication:** WinCC | Industrial HMI | TP377 HMI | Profibus | Ethernet Communication
- **AC/DC Drives & VFDs:** Siemens 6RA70 | Siemens 6RA80 | Siemens G120 | Lenze Analog DC Drives | Ansaldo DC Digital Drives | Eurotherm DC Drives | Altivar | ABB VFDs
- **Instrumentation & Process Control:** Industrial Instrumentation | Measuring Gauge Systems | PLC-Based Control | Furnace Control Systems
- **Manufacturing Equipment:** Cold Rolling Mills | Continuous Casting Lines | Annealing Systems | Pickling Lines | Slitting Lines | Hardening & Tempering Lines | Furnaces
- **Mechanical & Utility Systems:** Hydraulics | Pneumatics | Pump Houses | Compressors | DG Sets | Cranes | Cooling Towers
- **Electrical Engineering & Design:** Plant Load Calculations | Switchgear Selection | Cable Sizing | BOQ Preparation | Single-Line Diagram | Substation Layouts
- **Maintenance & Reliability:** Preventive Maintenance | Breakdown Maintenance | RCA | MTBF | MTTR | Shutdown Planning | Critical Spares Mgmt.
- **Industrial Practices:** 5S | SPC | SQC | Energy Management | Emergency Lighting | Earthing Systems

WORK EXPERIENCE

Theis Precision Steel India Private Limited | Navsari, Gujarat | Head – Maintenance & Projects **Sep'18 – Present**

- Leading plant-wide engineering, maintenance, automation, utilities and reliability operations across cold rolling and continuous-process manufacturing.
- Directing multidisciplinary **electrical, mechanical and automation** resources, aligning workforce deployment with maintenance requirements and production priorities.
- Managing annual maintenance planning, expenditure allocation, **critical-spares strategy** and resource utilization to support asset reliability and manufacturing continuity.
- Driving **preventive maintenance, breakdown response, root cause analysis (RCA)** and reliability initiatives to address equipment issues and strengthen operational performance.
- Steering **CAPEX and modernization projects** through feasibility assessment, budgeting, technical evaluation, vendor coordination, installation, commissioning and stabilization.
- Administering engineering support for **cold rolling mills, slitting/process lines, annealing systems** and associated plant equipment.
- Managing **HT/LT electrical infrastructure, switchgear, protection systems and utilities**, coordinating technical requirements with consultants, vendors and utility stakeholders.
- Leading installation & commissioning of a **rooftop solar power plant**, coordinating technology integration & technical execution via operational readiness.
- Resolving critical equipment failures via **structured troubleshooting, equipment modifications, shutdown planning** and OEM/vendor engagement.
- Driving **vendor development, critical-spares planning and maintenance execution** to strengthen equipment support and plant readiness.
- Ensuring **safety-focused maintenance execution** across electrical interventions, shutdown activities, equipment work and engineering projects.

Selected Projects & Modernization

- Leading implementation of a **Hardening & Tempering continuous-process line** integrating ACE furnaces, Siemens 6RA80/G120 drives, WinCC SCADA and Ethernet communication.
- Executing **Hydrogen and Nitrogen annealing system** upgrades through Siemens PLC and SCADA-based control modernization.
- Revamping **Hot Rolling Profile Mill** controls through integration of an Autodata drive controller.
- Commissioning **Esmech slitter** with Siemens S7-1500 PLC and ABB VFD technology.
- Modernizing **20-Hi Cold Rolling Mill** controls by replacing legacy PLC architecture with Siemens S7-400-class PLC and 6RA80 drive technology.
- Installing and commissioning a **Jasch measuring gauge** for the FPE 4-Hi Cold Rolling Mill.

Rashtriya Metal Industries Ltd. | Sarigam, Gujarat | Manager – Maintenance & Development **Jan'12 – Sep'18**

- Led **maintenance, engineering development, automation upgrades, project execution and commissioning** across rolling, casting, annealing, pickling, slitting and plant electrical systems.
- Commissioned two **Scott Brass, USA / Inductotherm Horizontal Continuous Casting Lines** incorporating channel-type and coreless induction furnaces for melting and holding operations.
- Commissioned and revamped **Achenbach 4-Hi reversible cold rolling mill**, integrating MINO modernization with Siemens 6RA80 DC drives, S7-414/S7-416 PLCs, WinCC IPC and Profibus/Ethernet communication.
- Modernized **MINO 4-Hi reversible rolling mill** by migrating legacy PLC controls to Siemens S7-315-2DP Profibus architecture.
- Commissioned a two-storey **Degreasing, Annealing & Pickling Line** integrating Otto Junker furnaces, Siemens 6RA80 drives, Lenze analog drives, TP377 HMI and Ethernet communication.
- Engineered and commissioned **Sundwig thinner-gauge double-loop slitting line** using Siemens PLC and Lenze DC drives.
- Modernized **GRISET 2-Hi/4-Hi reversible rolling mill** by migrating Telemecanique PLC controls to Siemens S7-315-2PN/DP architecture.
- Converted **bell annealing furnace** hard-wired logic to PLC-based control using Delta PLC and Siemens S7-1200 platforms.
- Revamped **Wessero pickling line** through Siemens 6RA80/6RA70 drive integration and upgraded control logic.
- Commissioned **RadCon annealing furnace** using Siemens S7-1200 PLC-based control.
- Executed plant-wide **lighting, emergency lighting and earthing systems**, while contributing to installation of the 11 kV express feeder.

Mafatlal Industries Limited | Navsari, Gujarat | Trainee Engineer – Maintenance / Engineering Services **Dec'10 – Dec'11**

- Supported **plant maintenance and engineering-services** activities, gaining practical exposure to industrial electrical systems, motors, panels, utilities and manufacturing equipment.
- Assisted with **breakdown maintenance and engineering interventions**, developing hands-on experience in industrial electrical operations and plant equipment support.

PREVIOUS EXPERIENCE

NCVT | Surat, Gujarat | In-Plant Trainee **Nov'09 – Apr'10**

ELECTRICAL POWER, UTILITIES & INFRASTRUCTURE

- Executed **66 kV and 11 kV power-system modernization**, including MOCB/OCB replacement and HT substation upgrades.
- Replaced **66 kV MOCB with ABB SF6 circuit breaker** and 11 kV HT substation OCB with ABB VCB.
- Coordinated **11 kV HT substation engineering, drawings and commissioning** with consultants.
- Worked across transformers, VCBs, MDBs and PDP panels as part of plant electrical infrastructure.
- Coordinated utility requirements for **maximum-demand sanction, transformer approvals and substation approvals**.
- Prepared plant load calculations, switchgear selections, cable sizing, BOQs, SLDs and substation layouts.
- Managed plant utility systems including **pump houses, compressors, DG sets and cooling towers**.

AUTOMATION, DRIVES & PLANT SYSTEMS

- **PLC & Automation:** Siemens S7-300 | S7-400 | S7-1200 | S7-1500 | GE Fanuc | Delta | Allen-Bradley SLC | Lenze
- **SCADA & HMI:** WinCC | Industrial HMI | TP377 | Profibus | Ethernet Communication
- **Drives:** Siemens 6RA70 | Siemens 6RA80 | Siemens G120 | Lenze Analog DC Drives | Ansaldo DC Digital | Eurotherm DC Drives | Altivar | ABB VFD
- **Electrical & Plant Systems:** Motors | PCC/MCC Panels | Instrumentation | Hydraulics | Pneumatics | Pump House | Compressors | DG Sets | Cranes | Cooling Towers
- **Process Equipment:** Cold Rolling Mills | Continuous Casting Lines | Annealing Systems | Pickling Lines | Slitting Lines | Furnaces