

SHIJIN SANKAR TK

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Nationality: Indian

Date of Birth: 25-April-2000

Passport: V9210756

Location: Karama, Muna Karama Apartment, UAE



Professional Summary

Dynamic and detail-oriented Chemical Engineering graduate with 4 years of hands-on experience in gas recovery, plant operations, and utilities management at GAIL (Gas Authority of India Limited). Proven expertise in process engineering, plant operations, startup & commissioning, and control room operations. Skilled in SOP development, equipment troubleshooting, process optimization, and managing batch & continuous processes. Strong ability in field data collection & reporting, production planning & scheduling, material & energy balances, and time management. Experienced in using SCADA and DCS systems for process control, with a focus on continuous process improvement and adherence to ISO standards and Quality Management Systems.

Skills

Technical:

- Process Engineering, Process Optimization, Plant Operations
- Equipment Troubleshooting, Startup & Commissioning
- Preventive & Predictive Maintenance, Batch & Continuous Processes
- Production Planning & Scheduling, Control Room Operations
- Utilities Management (steam, cooling water, compressed air)
- Material & Energy Balances, Field Data Collection & Reporting
- Process Control Systems (DCS, SCADA)
- SOPs, ISO Standards, Quality Management Systems • Strong Analytical & Problem-Solving Skills, Time Management

Software:

- Aspen Hysys, MS Excel, MS Office

Safety:

- LOTO procedures, firefighting, first aid, PPE usage, fire detection systems

Professional Experience

Field Engineer *GAIL (Gas Authority of India Limited), India* Unit: LPG Recovery Unit

Duration: August 2021 – April 2025

- Led daily plant operations, including startup & commissioning, shutdown, and continuous monitoring of critical systems using DCS and SCADA.
- Coordinated with the Main Control Room (MCR) to ensure smooth control room operations and compliance with ISO standards.
- Conducted preventive & predictive maintenance of rotating and static equipment.
- Developed and implemented Standard Operating Procedures (SOPs) to support quality management and safety systems.
- Managed equipment troubleshooting and supported maintenance teams with field diagnostics and process improvement initiatives.
- Executed production planning and scheduling, ensuring efficient operation of batch and continuous processes.

- Recorded and reported field process data to support material & energy balance assessments.
- Oversaw utilities management including steam, cooling water, and compressed air systems.
- Ensured adherence to LOTO, safety, and environmental compliance procedures.
- Assisted in commissioning and decommissioning activities: chemical cleaning, flushing, hydro testing, and leak testing.

Health, Safety, and Environment (HSE)

- Trained in first aid and firefighting procedures including CPR, artificial respiration, and bleeding control.
- Proficient in the use of foam, DCP, and CO2 fire extinguishers.
- Familiar with fire sprinkler systems and fire monitoring/detection systems.
- Experienced in the use of personal protective equipment (PPE) and breathing apparatus.

Equipment Handled

- Compressors: Centrifugal, Booster, Screw Compressors
- Cryogenic Turbo Expander & Gas Turbine Engine
- Pumps: Centrifugal (horizontal & vertical), Reciprocating, Gear, Hot & Cold Fluid Pumps
- Distillation Units: Valve Tray Type Columns, Reboilers (Thermosyphon)
- Condensers (Total & Partial)
- Dryers: Molecular Sieve
- Heaters & Heat Recovery: Gas-Fired Vertical Heater, Waste Heat Recovery Units (WHRU)
- Heat Exchangers: Plate Fin, Shell & Tube, Fin Fan Cooler
- Generators: Gas Turbine Generators (2.7 MW capacity / 3938 kW output)
- Vessels & Separators: Knockout Drums, Filter Separators, Vertical/Horizontal Phase Separators

Education

Bachelor of Technology (Chemical Engineering)

Bir Tikendrajit University (2017–2021)

Higher Secondary Certificate (Science)

TSNMHSS (2017)

SSLC

Kerala State Board, TSNMHSS PALAKKAD

Certifications

- Process Safety Introduction
- Technical Documentation Design (Internal Training)

Languages Known

- English
- Hindi
- Malayalam
- Tamil

Declaration

I hereby declare that all the above-mentioned details are true to the best of my knowledge.

Shijin Sankar T K