

RESUME

Suresh Ganesan

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15+ Years of Experience | Petrochemical | Industrial Water & Wastewater | Utilities | Operations & Maintenance |

SUMMARY

Seasoned and results-oriented Water & Utilities Operations Professional with 15+ years of experience in industrial water treatment, wastewater treatment, utilities operations, project execution and commissioning support across petrochemical, industrial and infrastructure environments.

Hands-on experience in ETP, WWTP, STP, RO, ZLD, DM, MEE, ATFD, Cooling Towers, Nitrogen Generation, Instrument Air and Plant Air systems. Experienced in plant operations, process troubleshooting, performance improvement, preventive maintenance coordination, chemical and energy optimization, environmental compliance and team leadership.

Proven capability in managing day-to-day treatment plant operations, identifying process deviations, conducting root-cause analysis, improving plant reliability and coordinating multidisciplinary teams. Experienced in ISO 9001, ISO 14001 and ISO 45001 documentation, HSE compliance, 5S and project execution.

EXPERIENCE

Senior Engineer – Water & Utilities

KLJ PETROPLAST LIMITED

Jan 2025 – Present

Jhagadia, Gujarat

- Manage day-to-day operation and monitoring of ETP, WWTP, STP, RO, ZLD, DM, Cooling Tower, Nitrogen, Instrument Air and Plant Air systems.
- Monitor plant performance, water quality, process parameters and utility consumption to maintain reliable and uninterrupted operations.
- Manage primary and secondary wastewater treatment systems, including aerobic biological treatment processes.
- Monitor COD, BOD, TDS, TSS, MLSS, MLVSS and VFA and evaluate treatment performance.
- Operate and optimize RO systems through monitoring of feed, permeate, reject, pressure, recovery and water-quality parameters.
- Monitor Cooling Tower make-up, blowdown, chemical dosing, heat load and operating performance.
- Ensure reliable operation of Nitrogen Generation systems with respect to purity, pressure and flow requirements.
- Ensure reliable Instrument Air and Plant Air supply by coordinating compressor operation, maintenance and performance monitoring.
- Troubleshoot process and equipment problems and conduct root-cause analysis to minimize downtime and recurrence.
- Optimize chemical consumption, electrical power usage and overall water balance.
- Coordinate preventive and breakdown maintenance activities with maintenance teams.
- Manage hazardous and non-hazardous waste handling in accordance with environmental and HSE requirements.
- Support ₹22 million utility and environmental projects, including project execution and cash inflow/outflow monitoring.
- Coordinate with vendors, contractors, project teams and operations personnel during installation, testing and commissioning.
- Review PFDs, P&IDs, SOPs and operational logic for water treatment and utility systems.

- Maintain ISO 9001, ISO 14001 and ISO 45001 documentation, including SOPs, work instructions, risk assessments, permits and audit records.
- Implement and sustain 5S practices and promote safe operating practices.
- Coordinate design review, procurement, installation and commissioning activities for HRSCC, UASBR, MBBR, UF, RO, DM, MEE, ATFD, Cooling Tower and utility systems.

Deputy Manager

WKT ENVIRO SYSTEM PVT. LTD.

May 2024 – Dec 2024

Chennai

Senior Engineer

KLJ PETROPLAST LIMITED

Nov 2021 – Apr 2024

Jhagadia, Gujarat

Senior Control Room Engineer

AR ENTERPRISES (BGR ENERGY SYSTEMS LTD.)

Oct 2019 – Nov 2021

Chennai

Site Engineer

LALBUKSH VOLTAS ENGINEERING SERVICES TRAD. L.L.C

Mar 2013 – Mar 2019

Muscat, Oman

Shift In-Charge

ECO CARE ENGINEERING PVT. LTD.

Mar 2012 – Feb 2013

Bellary

Plant Operator

Jun 2009 – Feb 2012

ECO CARE ENGINEERING PVT. LTD.

Chennai

Apprentice Trainee

Crude Distillation Unit & Process Engineering Department – CPCL

Oct 2007 – Oct 2008

EARLY INDUSTRIAL TRAINING

EDUCATION

CPCL Polytechnic College, Chennai, India

Diploma in Petrochemical Engineering, 74%

May 2007

TECHNICAL SKILLS

Water & Wastewater Treatment Operations
ETP / WWTP / STP Operations
RO / UF / Desalination
ZLD / MEE / ATFD
DM Plant Operations
Cooling Tower Operations
Nitrogen Generation Systems
Instrument Air & Plant Air Systems
Utilities O&M Management
Process Troubleshooting & RCA
Plant Performance Improvement
Chemical & Energy Optimization
Preventive & Breakdown Maintenance
Environmental & Statutory Compliance
HSE / Risk Assessment / Permit Systems
ISO 9001 / ISO 14001 / ISO 45001
SOP & Work Instruction Development
5S Implementation & Audit Readiness
Team Leadership & Manpower Management
Project Coordination & Commissioning

TECHNICAL EXPOSURE

Water Treatment: ETP, WWTP, STP, RO, UF, TTRO, Desalination, DM
ZLD Systems: MEE, ATFD and associated wastewater concentration systems
Biological Treatment: UASBR, MBBR and aerobic treatment systems
Utilities: Cooling Towers, Nitrogen Generation, Instrument Air, Plant Air and Compressors
Process & Monitoring: COD, BOD, TDS, TSS, MLSS, MLVSS, VFA, water balance, chemical dosing and process performance

MANAGEMENT & COMPLIANCE

Operations & Maintenance Management Team Leadership & Task Delegation Preventive Maintenance Planning Root Cause Analysis Cost & Chemical Optimization HSE Compliance Risk Assessment SOP / Work Instruction Development ISO 9001 / ISO 14001 / ISO 45001 5S Implementation Audit Preparation

LANGUAGES

Tamil | English | Hindi

ADDITIONAL INFORMATION

- Passport Number: S9531281
- Father's Name: N. GANESAN
- Date of Birth: 06/28/1988
- Nationality: Indian