

SABYASACHI RAY

Water Infrastructure Management | O&M Expertise | Regulatory Compliance

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PROFESSIONAL SUMMARY

Experienced Water Infrastructure and Operations professional with 20+ years of expertise in managing large-scale **water treatment plants, water distribution systems, wastewater infrastructure, and utility operations across municipal, industrial, and airport sectors. Proven track record in project execution, plant commissioning, O&M management, contract administration, asset maintenance, regulatory compliance, and stakeholder coordination. Skilled in leading multidisciplinary teams, optimizing operational performance**, ensuring service reliability, and delivering complex infrastructure projects within quality, safety, and budgetary parameters. Adept at managing water treatment capacities exceeding 900 MLD and driving operational excellence across critical utility assets.

CORE COMPETENCIES

Water Treatment Plant Operations	Water Distribution Network Management	Project Execution & Site Management
Utility Asset Maintenance	Water Loss Reduction Programs	Erection & Commissioning
Mechanical Systems Management	Contract Administration	Resource Planning & Optimization
Preventive & Predictive Maintenance	Budgeting & Cost Control	Vendor & Contractor Management
Quality Assurance & Compliance	Health, Safety & Environment (HSE)	Client & Government Stakeholder Management
Team Leadership & Workforce Development	Operational Risk Management	Inventory & Spare Parts Management

TECHNICAL SKILLS

AutoCAD	MS Office Suite	Project Documentation	Reporting	QA/QC Procedures	Method Statements
Inspection Plans	Water Network Monitoring Systems				

PROFESSIONAL EXPERIENCE

02/2025 - 12/2025

Bisalpur, Rajasthan

- Project Manager**
GCKC Projects & Works Pvt. Ltd
Bisalpur–Jaipur Water Supply Project
Managed operations and maintenance of critical water infrastructure including intake pumping stations, 600 MLD and 216 MLD water treatment facilities, and intermediate pumping stations serving municipal water supply operations.

 - Directed end-to-end O&M activities across multiple water treatment and pumping facilities.
 - Led workforce planning, deployment, training, and performance management initiatives.
 - Implemented maintenance programs to improve equipment reliability and operational uptime.
 - Coordinated emergency repairs, pipeline leak rectification, and breakdown management activities.
 - Controlled maintenance budgets, spare inventory, and procurement planning.
 - Prepared operational reports, maintenance documentation, and client billing submissions.
 - Maintained strong working relationships with government utility authorities and project stakeholders.

01/2023 - 06/2024

Kalaburagi & Hubballi-Dharwad, Karnataka

- Assistant Manager – Mechanical**
Larsen & Toubro Construction (24x7 Water Supply)
Managed operation and maintenance activities for municipal water treatment and distribution infrastructure under continuous water supply programs.

 - Supervised plant operations, maintenance planning, and workforce allocation.
 - Developed maintenance strategies to maximize asset performance and minimize downtime.
 - Managed pipeline leak rectification programs and emergency maintenance activities.
 - Oversaw inventory management, spare planning, and cost control initiatives.
 - Ensured adherence to safety standards and operational compliance requirements.
 - Coordinated with local authorities and project stakeholders for uninterrupted service delivery.

PROFESSIONAL EXPERIENCE

02/2014 - 12/2022

Kolkata

● Senior Engineer – Operations & Maintenance

SUEZ India Pvt. Ltd

Water Loss Management Project

Led water distribution network operations covering multiple service zones and managed customer service performance linked to water supply infrastructure.

- Directed complaint resolution programs related to leakage, low-pressure, and supply disruptions.
- Monitored DMA performance, flow data, pressure points, and water consumption metrics.
- Planned and executed rehabilitation of water distribution assets.
- Managed maintenance activities for flow meters, water meters, and network instrumentation.
- Implemented water loss reduction and network performance improvement initiatives.

Mumbai

● Water Treatment Plant Operations

- Supervised plant operations, maintenance activities, and manpower deployment.
- Led preventive maintenance and equipment reliability programs.
- Ensured compliance with safety, quality, and operational performance standards.
- Supported commissioning and installation of electro-mechanical systems for industrial water and wastewater projects.
- Coordinated fabrication and installation activities for utility piping systems.

04/2010 - 07/2013

IGI Airport Terminal 3, New Delhi

● Operations Officer – Into Plane Services

Indian Oil Skytanking Ltd

Managed aviation fuel hydrant system operations and quality control processes.

- Conducted operational quality audits and compliance inspections.
- Supported commissioning and maintenance of aviation fuel hydrant infrastructure.
- Planned manpower deployment for uninterrupted fueling operations.
- Maintained service standards for airline customers and airport stakeholders.
- Ensured compliance with aviation safety and operational requirements.

01/2009 - 03/2010

● Executive – Technical Services

Global Adsorbent Pvt. Ltd

- Provided technical consultation on water treatment solutions.
- Supported media selection for industrial and municipal water treatment applications.
- Prepared techno-commercial proposals for government and private sector projects.
- Assisted customers in troubleshooting treatment process and system-related issues.

06/2007 - 10/2008

● Senior Engineer

Fontus Water Ltd

- Managed design, commissioning, installation, and servicing of water and wastewater treatment facilities.
- Prepared cost estimates, technical proposals, and project documentation.
- Supported business development activities for institutional and industrial projects.
- Delivered commissioning support and post-installation technical services.

10/2004 - 06/2007

● Field Engineer

Ion Exchange Services Ltd

- Executed installation and commissioning of RO plants, softening plants, and iron removal systems.
- Performed preventive and corrective maintenance activities.
- Assisted in design support and technical sales initiatives.
- Provided after-sales support and customer training programs.

KEY ACHIEVEMENTS



Managed Mega Water Treatment Facilities

Successfully led operations and maintenance of water treatment plants with capacities up to **900 MLD**, ensuring reliable and uninterrupted utility services.



Reduced Operational Downtime

Implemented preventive maintenance and asset reliability programs that improved equipment performance and minimized service disruptions.



Delivered 24x7 Water Supply Projects

Managed critical municipal water supply projects across Rajasthan and Karnataka, supporting continuous water distribution to urban communities.



Led Water Loss & Network Improvement Initiatives

Managed water distribution networks and leakage control programs, enhancing system efficiency and customer service levels.

KEY ACHIEVEMENTS

- ✓ **Directed Cross-Functional Teams Across Large Infrastructure Projects**
Successfully led multidisciplinary teams of engineers, operators, and contractors while maintaining high standards of safety, quality, and operational excellence.

EDUCATION

	●	Advanced Diploma in Water Quality Management Dr. Babasaheb Ambedkar Technological University
2004 West Bengal State Council of Technical Education	●	Diploma in Mechanical Engineering Ramakrishna Mission Shilpapitha, Belghoria
2000 West Bengal Council of Higher Secondary Education	●	Higher Secondary Dum Dum Aravinda Vidyamandir
1998 West Bengal Board of Secondary Education	●	Secondary Education Baranagar Ramkrishna Mission Ashram High School

PERSONAL DETAILS

Age
44 years

Expected CTC
Negotiable

LANGUAGES
English, Hindi, Bengali