

Process Engineer – Detail Engineering

Key Responsibility Areas (KRA)

Position: Process Engineer – Detail Engineering

Reporting To: Head – Engineering Design

Company: SFC Environmental Technologies Ltd

ABOUT SFC ENVIRONMENTAL TECHNOLOGIES LTD.

Innovating for a Sustainable Tomorrow: SFC Environmental Technologies is at the forefront of tackling critical environmental challenges. We're not just building solutions; we're building a sustainable future. Our advanced technologies, including C-Tech wastewater treatment and OREX solid waste segregation, are setting new industry standards. Be part of a team that's making a real difference.

VISION

“Be the trusted leader in environmental technologies, continuously innovating to create value, inspiring sustainable change for a better tomorrow.”

MISSION

“Harnessing technology and human insights to develop and deliver simple, flexible, and cost-effective environmental solutions.”

Role Overview

The Process Engineer - Detail Engineering (UF, RO, MBR, MABR) will be responsible for preparing comprehensive Basic Engineering Package for wastewater recycling projects. The role involves preparing and reviewing technical engineering documents, selecting treatment schemes, conducting design calculations, and coordinating with vendors and stakeholders. Experience with **Membrane-based sewage/effluent treatment systems** and a working knowledge. The engineer will also coordinate with internal departments and vendors to ensure timely and high-quality submissions.

1. Tender & Basic Engineering Package Analysis:

- Analyze tender specifications and prepare comprehensive Basic Engineering Packages for wastewater treatment projects using SBR technology.

2. Process Design & Scheme Selection:

- Conduct process and hydraulic design calculations, select treatment schemes, and prepare engineering inputs like PFDs, P&IDs, and hydraulic profiles

SFC ENVIRONMENTAL TECHNOLOGIES LTD. CIN: U37003MH2005PLC152235
(Formerly SFC Environmental Technologies Pvt. Ltd.)

Registered Office: 21st Floor, 2101-2106,
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Sector 19-D, Plot No. 2, Vashi, Navi Mumbai,
Thane, Maharashtra - 400 705.

Corporate Office: 2201-2202, Rupa
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Industrial Area, MIDC Industrial Area, Turbhe,
Navi Mumbai, Maharashtra - 400 705.

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3. Drawings & Documentation Coordination:

- Collaborate with the drafting team to develop and review technical drawings, equipment layouts, and specification documents.

4. Vendor Interaction:

- Coordinate with vendors to obtain quotations and technical details of equipment for project evaluation

5. Site Visits & Data Collection:

- Conduct field visits to assess existing infrastructure and gather relevant data for feasibility and design validation

6. Stakeholder Coordination:

- Liaise with internal teams, clients, contractors, and regulatory authorities to ensure alignment on technical specifications and compliance.

7. Compliance & Standards:

- Ensure that all engineering outputs adhere to relevant industry codes, environmental regulations, and project-specific quality standards.

8. Construction & Commissioning Support:

- Provide technical assistance during the construction, commissioning, and start-up phases of the project lifecycle.

Key Performance Indicators (KPIs)

1. Design Accuracy

- **Percentage** of drawings and calculations approved without revision.
- Number of design-related reworks.

2. Timely Delivery

- **Percentage** of engineering deliverables submitted on or before deadline.
- On-time completion of Basic Engineering Package

3. Process Design Validation

- **Accuracy** of process/hydraulic calculations validated during commissioning.
- Deviation rate between design and actual performance

4. Site & Stakeholder Support

- Number of site issues resolved through engineering inputs.

5. Value Engineering

- Cost savings achieved through design optimization
- Number of design improvements or innovations implemented.

Academic Qualifications

- M Tech Environment Engineering and/or related Fields with relevant experience

Skills & Competencies Required

- 4–5 years of relevant experience in wastewater treatment detailed engineering.
- Expertise in UF, RO, MBR, MABR systems.
- Familiarity with engineering codes and environmental regulations.
- Strong analytical and process calculation skills.
- Proficiency in interpreting and generating technical drawings and documentation.
- Effective communication, stakeholder coordination, and team collaboration.

Reporting Structure & Collaboration

- Reports To: Head – Engineering Design
- Collaborates With:
 - Internal departments (Process, Design, Procurement, Projects, Commissioning)
 - Clients, contractors, and equipment vendors
 - Drafting and Documentation Team
 - Quality & Compliance Team

The **Process Engineer - Detail Engineering (UF, RO, MBR, MABR)** at **SFC Environmental Technologies Ltd.** plays a key role in translating conceptual designs into technically sound, execution-ready engineering packages. By preparing process calculations, technical drawings, and documentation, the individual ensures the engineering integrity of wastewater treatment systems. This role supports cross-functional teams, interfaces with vendors and site engineers, and ensures regulatory compliance, contributing to the timely and effective delivery of SFC's sustainable water solutions.

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Role Overview

We are seeking a detail-oriented **Process Engineer – Detail Engineering** with 5+ years of experience in wastewater treatment to join our **Detail Engineering** team. The role involves preparing and reviewing technical engineering documents, selecting treatment schemes, conducting design calculations, and coordinating with vendors and stakeholders. Experience with **SBR-based sewage/effluent treatment systems** and a working knowledge of **STP/ETP/CETP technologies** (ASP, MBBR, SBR, MBR) is highly desirable. The key responsibilities of this role include,

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Academic Qualifications

- M Tech Environment Engineering and/or related Fields with relevant experience

Skills & Competencies Required

- 5+ years of relevant experience in wastewater treatment detailed engineering
- Expertise in STP/ETP/CETP systems and design methodologies (esp. SBR)
- Familiarity with engineering codes and environmental regulations
- Strong analytical and process calculation skills
- Proficiency in interpreting and generating technical drawings and documentation
- Effective communication, stakeholder coordination, and team collaboration

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