

## Eng. Mohamed Mafas. M.M.

Reading MSC in Environmental Engineering & Management (228628R)

Production Engineer (BSC. Eng) – IESL: AM-25745

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### Career Objective:

To secure a challenging role as a **Maintenance Engineer** where I can apply my knowledge in Environmental Engineering and Water/Wastewater Treatment to enhance system reliability and efficiency. I aim to contribute my expertise in designing and executing maintenance plans while ensuring environmental compliance and minimizing environmental impact. Through continuous improvement initiatives, I aspire to drive operational excellence, promote sustainability, and advance both the organization's goals and environmental stewardship.

### Profile:

Experienced Maintenance Engineer with a specialized background in Environmental Engineering and Water/Wastewater Treatment. Proficient in designing, implementing, and maintaining water treatment systems, with expertise in Biological wastewater treatment and Solid and Hazardous Waste Management. Skilled in optimizing system performance, ensuring environmental compliance, and fostering sustainability within the maintenance domain. Committed to delivering efficient and cost-effective solutions while upholding environmental standards.

### Work Experience

#### 1. Employer: Hayleys Fentons Sri Lanka

**Designation** : Application Engineer – MEP AM

**Duration** : December 2021 – Till Now

#### 2. Employer: Ion Exchange (India) Ltd

**Designation** : Application Engineer – Water and wastewater Treatment System

**Duration** : January 2020 – December 2021

#### 3. Employer: International Gulf Trading Company - Qatar

**Designation** : Application Engineer – Water and wastewater Treatment System

**Duration** : February 2015 – December 2018

### Responsibilities and Technical Knowledge

1. Designing and implementing maintenance plans for water and wastewater treatment systems, including Biological wastewater treatment systems, ensuring smooth and efficient operation.
2. Conducting regular inspections and troubleshooting to identify issues in the systems and proactively addressing them to minimize downtime.
3. Overseeing Solid and Hazardous Waste Management activities, ensuring proper handling, disposal, and compliance with environmental regulations.
4. Performing Environmental Impact Assessments (EIA) for maintenance activities, evaluating potential environmental impacts, and proposing mitigation measures.
5. Monitoring and optimizing air quality and noise levels within the facilities to meet environmental standards and ensure a safe working environment.
6. Developing and executing preventive maintenance schedules, including equipment calibration, to maintain optimal system performance.
7. Collaborating with cross-functional teams to analyze maintenance data, identify trends, and implement continuous improvement strategies.
8. Providing technical support and expertise in water and wastewater treatment systems, assisting in system upgrades and retrofits as needed.
9. Managing Lake Management initiatives and surface water pollution control measures, ensuring water quality and environmental preservation.
10. Conducting cost-benefit analysis for maintenance projects, optimizing resource allocation, and budgeting.

11. Coordinating with vendors and suppliers to procure necessary equipment and spare parts for maintenance activities.
12. Maintaining comprehensive documentation and records of maintenance activities, compliance status, and equipment history.

### **Projects Experiences**

1. **RO Membrane:** Supply, Delivery, and Supervision of Replacement of the RO Membrane to Unilever Sri Lanka Horana Manufacturing Facility
2. **Water Filters:** Supply, Delivery, Installation, Testing and Commissioning for BOI Horana Zone.
3. Operation & Maintenance of Waste Supply and Sewerage Scheme of Wathupitiwala Export Processing Zone
4. **Fire Cabinets:** Supply, Delivery, Supervision of Installation – Yala Wild Beach
5. **Fire Extinguishers:** Supply, Delivery, Installation – Brandix Pannala
6. **STP:** Design, Supply, Installation, Testing & Commissioning of STP (EFLOSAF1000) for QOC. Horse Owners Complex Phase 2
7. **Sand Filter:** Design, Supply, installation, Testing and Commissioning of Water Filtration System - Six Construct, New Port Project CP 12, 13 & 14
8. **Pen-stocks:** Supervision for installation, testing and Commissioning - Roads & Infrastructure Wakra West (Al Shamal) Package 14 (Pkg3)
9. **Sewerage Screens:** Supply, Delivery, Supervision for installation, testing and Commissioning - Lusail Commercial Boulevard
10. **Grinders:** Supply, Delivery, Supervision for installation, testing and Commissioning, training & Handover and Maintenance of the Complete - Refreshment and Upgrading of Various PS CP 771
11. **Odor Control Units:** Design, Supply, installation, Testing and Commissioning of OCU System - New Port Project CP 12, 13 & 14, Ashghal
12. **Vacuum Sewer System:** Supply, Delivery, Supervision for installation, testing and Commissioning, training & Handover and Maintenance of the Complete – Zula Resort in Shamal

### **Professional Qualification and Skills**

- Following MSC in Environmental Engineering & Management in University of Moratuwa
- Diploma in Auto Cad 2D & 3D - CADD Centre Lanka
- MS Office and office related soft wears including Data Analysis.
- Sound knowledge of essential Environmental Engineering software tools, such as ArcGIS, MATLAB, Power BI, and Excel, enabling proficient data analysis.

### **Training and Development**

- Operation & Maintenance of Cable Operated Bar Screen SGR, Spiral Conveyor and Compactor press Wash – Bilfinger Water Technologies GmbH (Aqseptence Group Company)

### **Non-Related Referees**

#### **1. Prof. Jayaweesa M.W.**

Environmental Engineer – Department of Civil Engineering: University of Moratuwa

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#### **2. Prof. Jagath Manatunge**

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