

Executive Summary

ME Water and Wastewater Engineering Services is a premier, Dubai-based engineering consultancy specializing in the design, modelling, and management of critical water and wastewater infrastructure. As a Dubai Municipality (DM) Accredited firm, we were founded on the principles of technical excellence, regulatory precision, and a deep commitment to supporting the sustainable growth of the UAE's built environment.

In an era of rapid urban development and increasing climate considerations, infrastructure resilience is paramount. We bridge the gap between complex hydraulic theory and practical, buildable solutions. Our expertise spans the full project lifecycle—from sophisticated Stormwater and Potable Water Modelling to the production of rigorous IFC Documentation and Tender Support.

We pride ourselves on being a high-value sub-consultancy partner for Contractors, Architects, and Landscape Engineers. By integrating advanced engineering software with a thorough understanding of local authority standards, we ensure that our clients' projects are approved swiftly, bid accurately, and constructed without technical delay.



MEWS-Engineering Services



Executive Summary Continued..

- **Our Core Commitments:**
 - **Regulatory Excellence:** Full alignment with DM, DEWA, and international engineering standards.
 - **Technical Precision:** Utilizing industry-leading hydraulic modelling to mitigate project risk.
 - **Operational Support:** Providing comprehensive tender and construction-phase documentation.
 - **Sustainable Innovation:** Designing efficient networks for recycled water and flood resilience.
- At MEWS Engineering Services, we don't just design networks; we engineer the essential veins of the modern city, ensuring reliability from the first drop to the last.



MEWS-Engineering Services





Infrastructure Engineering Consultancy

Specialists in:

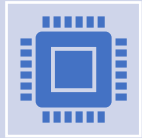
- Stormwater Drainage Design
- Sewerage Network Design
- Potable Water Distribution Systems
- Irrigation Network Design
- Road and Railway Drilage
- Construction Supervision



Accredited by Dubai Municipality
Dubai, United Arab Emirates



About Our Company



MEWS Engineering Services L.L.C is a professional engineering consultancy firm based in Dubai, United Arab Emirates, specializing in infrastructure engineering services related to water systems.



The company provides engineering design and construction supervision services for stormwater drainage systems, sewerage networks, potable water distribution systems, irrigation networks, and road & railway drainage design.



With a commitment to engineering excellence and regulatory compliance, MEWS Engineering Services delivers sustainable, reliable, and efficient infrastructure solutions tailored to the needs of government authorities, developers, and contractors.





Vision & Mission

Vision

To become a trusted and recognized engineering consultancy in the UAE specializing in water infrastructure design and construction supervision.

Mission

To deliver high-quality engineering services that support sustainable infrastructure development while meeting regulatory standards and client expectations.

Core Values

- Engineering Excellence
- Integrity and Professionalism
- Innovation
- Sustainability
- Client Satisfaction





Our Services Overview

MEWS Engineering provides specialized consultancy services covering the full lifecycle of infrastructure engineering projects.

Core Service Areas

- Stormwater Drainage Design
- Sewerage Network Design
- Potable Water Distribution Systems
- Irrigation Network Design
- Road & Railway Drainage

Construction Supervision





Stormwater Drainage Design

Our stormwater engineering services focus on developing efficient drainage solutions that mitigate flooding and ensure effective water management.

- **Services Include**

- Stormwater drainage network design
- Hydraulic modeling
- Flood mitigation solutions
- Drainage infrastructure planning
- Sustainable urban drainage solutions





Sewerage Network Design

We provide engineering design services for wastewater collection systems that ensure reliable and environmentally responsible sewer infrastructure.

Services Include

- ❑ Gravity & Pressurised sewer network design
- ❑ Sewer pipeline routing and sizing
- ❑ Hydraulic analysis
- ❑ Wastewater system planning
- ❑ Pumping Station design
- ❑ Surge Analysis



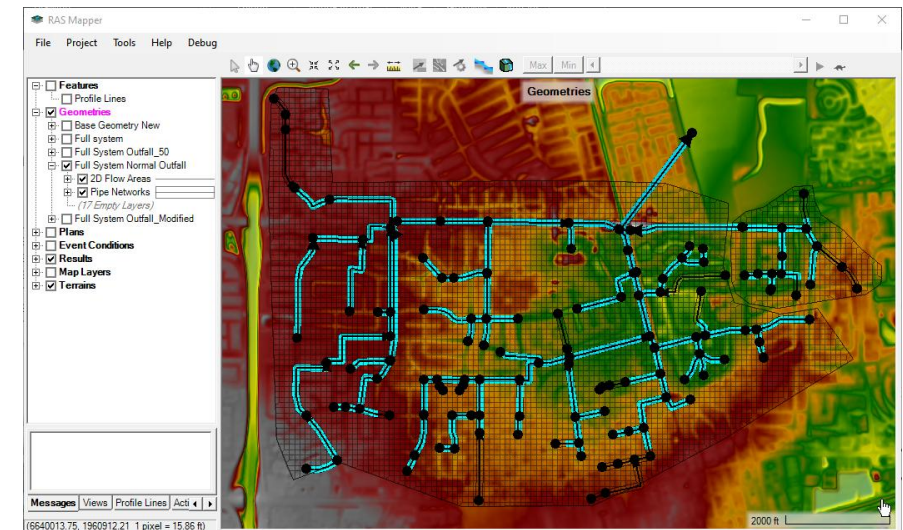


Potable Water Distribution

MEWS Engineering Services designs potable water distribution networks to ensure safe and efficient water supply.

Services Include

- Water supply network design
- Pipeline alignment and sizing
- Pressure analysis
- Hydraulic modeling





Irrigation Network Design

Our irrigation engineering services support sustainable landscape development and efficient water management.

Services Include

- ❑ Landscape irrigation design
- ❑ Irrigation pipeline networks
- ❑ Water efficiency planning
- ❑ Smart irrigation systems





Road Drainage Design

- **Integrated Road Drainage Solutions** for highways, urban roads, and infrastructure developments.
- **Hydrological & Hydraulic Analysis** including catchment assessment, rainfall-runoff modelling, and peak flow estimation.
- **Stormwater Network Design** including gullies, manholes, pipelines, culverts, and cross-drainage structures.
- **Advanced Hydraulic Modelling** using **InfoWorks ICM** and **InfoDrainage** to optimise network performance and system capacity.
- **Flood Risk & Surface Water Management** to mitigate flooding along road corridors and adjacent developments.
- **Sustainable Drainage Integration** incorporating SuDS/LID solutions to improve resilience and environmental performance.
- **Climate-Resilient Design** considering extreme rainfall events and future climate scenarios.
- **Authority Approvals & Tender Support** including preparation of design reports, drawings, and technical specifications





Railway Drainage Design

- **Comprehensive Railway Drainage Solutions** for high-speed rail, metro, freight, and light rail systems.
- **Hydrological & Hydraulic Assessment** including catchment analysis, rainfall-runoff modelling, and peak flow estimation.
- **Track Drainage Systems** including longitudinal drains, cross drains, culverts, and outfall structures to protect track stability.
- **Advanced Hydraulic Modelling** using **InfoWorks ICM** and **InfoDrainage** to evaluate system performance and flood risk.
- **Flood Risk & Resilience Planning** to safeguard railway infrastructure from extreme rainfall and surface water flooding.
- **Sustainable Drainage Integration** incorporating nature-based and SuDS solutions where applicable.
- **Climate-Resilient Design** addressing future rainfall intensities and long-term infrastructure protection.
- **Design Documentation & Tender Support** including detailed design drawings, reports, specifications, and construction support



Construction Supervision



- MEWS Engineering Services provides professional construction supervision to ensure projects are implemented according to approved engineering designs and specifications.

- **Supervision Services**

- Site inspection and supervision
- Contractor coordination
- Quality control and compliance monitoring

- **Progress monitoring**





Regulatory Compliance

- MEWS Engineering Services operates in full compliance with infrastructure engineering standards and regulations established by Dubai Municipality
- The company ensures that all designs and supervision services align with applicable engineering standards and project requirements





Project Approach

- Our approach to infrastructure design focuses on:
- Technical Excellence
- Application of advanced engineering analysis and international best practices.
- Integrated Engineering
- Coordination between hydraulic, structural, mechanical, and electrical disciplines.
- Sustainable Infrastructure
- Design solutions that minimise operational costs, energy consumption, and environmental impact.
- Client-Oriented Delivery
- Providing practical engineering solutions that support project approvals and efficient construction.





MEWS-Engineering Services

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