خانصاحب سايكس
KHANSAHEB SYKES

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CASE STUDY

High-Capacity Rainwater Management for Infrastructure in International City, Dubai

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Khansaheb Sykes Provides Rapid Flood Contingency for Urban Infrastructure

Our pumping specialists were recently tasked with implementing an urgent rainwater mitigation strategy for a major infrastructure project in Dubai. The site required an immediate solution to manage unpredictable weather-driven flooding that threatened the local MEP network.

Our team utilized a specialized fleet of pumps engineered for rapid response and high-volume water displacement.

The **GP 150M**, **WP 150/60**, **GP 200** and **GP 200M** are designed for continuous, heavy-duty dewatering, offering the reliability needed for fluctuating site conditions.

For areas requiring water to be moved across significant elevations, the **MH150** provides the necessary high-head performance.

Central to our rainwater strategy is the **Super Wispaset 300**, which is capable of delivering flows of up to 415 l/s. It features a large 480-litre fuel tank for up to 24 hours of autonomous operation, ensuring the system remains active during prolonged rain events without the need for frequent refueling.

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1 CHALLENGE

The extreme dependency on fluctuating weather conditions meant the site had to be ready to respond immediately to sudden rainfall. Because rain events in the region can be sudden and intense, the infrastructure was at risk of flooding.

Given the unpredictable nature of storm events, it was essential to have a system and support team capable of guaranteeing performance at short notice, ensuring the main MEP network remained functional and dry during heavy rainfall.

2 SOLUTION

A fleet of 30 pumps was deployed across the site, including **GP 150M**, **WP 150/60**, **GP 200** and **GP 200M**, for their reliability in engineering applications.
The **MH150** was incorporated to support higher head requirements.
High-volume rainwater management was handled by the **Super Wispaset 300**.

Our dedicated experts remain on standby and carries out regular inspections to keep all pumps primed and fully operational, providing the client with a dependable standby system whenever weather conditions change.

3 OUTCOME

We successfully managed the initial phase of rainwater mitigation, ensuring efficient drainage and a clean, secure environment for infrastructure works. During recent rainstorms, on-site teams reported no pump issues, confirming the reliability of the equipment and maintenance schedule.

These coordinated efforts protected the surrounding infrastructure even during peak rainfall, with the integrated pump fleet enabling continuous 24/7 dewatering.

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