



خانصاحب سايڪس  
KHANSAHEB SYKES

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CASE STUDY

# Large-Scale Dewatering: Fronds & Spine, Jebel Ali, Dubai

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CASE STUDY

## Large-Scale Dewatering for Infrastructure Works Fronds & Spine, Jebel Ali, Dubai

Khansaheb Sykes was appointed to provide a large-scale dewatering solution for infrastructure works across the fronds and spine of Palm Jebel Ali in Dubai, UAE.

The system was designed to lower groundwater levels and create safe, workable conditions for constructing:

- Sewer and stormwater pipelines
- Manholes
- Oil interceptors
- Outfall chambers
- Lifting stations
- Pumping stations



GP 150M  
General Purpose Pump



### 1 CHALLENGE

Located beside the sea and comprising highly permeable shelly sand, the site experienced groundwater levels affected by tidal fluctuations.

The absence of shoring, combined with the coastal location and ground conditions, created a significant groundwater-control challenge.

Khansaheb Sykes' experience in similar coastal environments was essential when designing a reliable and adaptable solution.



### 2 SOLUTION

Following a detailed assessment, our engineers implemented a combination of deepwell, wellpoint, and sump pumping techniques to accommodate different structures and excavation depths across the site.

The equipment and systems included:

- Up to 100 **GP 150M general purpose pumps**
- **Submersible borehole pumps** rated up to 13 kW
- **Generators** ranging from 60 to 200 kVA
- Up to 60 **deepwells** for individual structures
- Approximately 10 km of wellpoint systems for pipeline dewatering

### 3 OUTCOME

The project remains ongoing, with approximately 70% of the designated area successfully dewatered to date. Groundwater levels have been effectively controlled across completed work fronts, helping to keep excavations stable, accessible, and suitable for ongoing construction activities.

Khansaheb Sykes delivered high-capacity dewatering solutions for complex infrastructure developments in highly permeable, tidally influenced ground conditions.





## Need a reliable dewatering solution for challenging conditions?

Khansaheb Sykes delivers rapid, reliable solutions across the region. Speak to our team today!



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