



خانصاحب سايكس
KHANSAHEB SYKES



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CASE STUDY

Dewatering Operations for Stormwater Line Installation Yas Bay Beach, Abu Dhabi

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Khansaheb Sykes was engaged to deliver a controlled dewatering solution for the installation of a stormwater line within a newly reclaimed coastal zone at Yas Bay Beach. The works were undertaken in a high-risk marine environment, where groundwater levels, soil permeability, and direct hydraulic connectivity to the sea presented significant technical and operational challenges.

From the outset, the priority was clear: maintain stable excavation conditions, protect programme continuity, and ensure safe access throughout construction.



GP 150M General Purpose Pump



GP 200M General Purpose Pump

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1 CHALLENGE

The excavation was carried out in recently dredged and backfilled material, characterised by highly permeable silty soils and an elevated groundwater table. Direct hydraulic connectivity to the sea led to rapid and unpredictable inflow, sustained groundwater pressure, and increased risks to stability and programme timelines.

This required a robust dewatering solution capable of handling continuous drawdown and sudden inflow without interruption.



2 SOLUTION

Khansaheb Sykes implemented a combined over-pumping and deep well dewatering system:

- 5 x **GP200M** provided high-volume inflow control
- 7 x **GP150M** distributed trench dewatering
- Borehole pumps maintained groundwater drawdown and 200kVA generators ensured uninterrupted power supply

This integrated setup ensured operational continuity and allowed the system to adapt in real time to changing site conditions.



3 OUTCOME

The well-engineered, responsive dewatering strategy reduced operational risk and maintained stable excavation conditions throughout the project. As a result, our experts also delivered:

- Sustained safe access for construction activities
- Elimination of unplanned flooding or downtime
- Reliable equipment performance under continuous operation

This project highlights our expertise as a specialist provider for complex and high-risk infrastructure.





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