



CASE STUDY

How Khansaheb Sykes Provided Overpumping Services for Major Waterpark During Essential Maintenance

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When a major waterpark in Abu Dhabi was undergoing critical maintenance of one of its basins, Khansaheb Sykes was called to assist in the removal of large volumes of seawater from the confined basin environment. The goal? To remove 180m³ of salt water within a 4-hour operational window. With a limited timeframe, the project had to be executed swiftly and precisely, minimising disruption to other ongoing site activities.

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1 CHALLENGE

The site conditions proved to be unfavourable, with manoeuvrability severely restricted. The designated working space consisted of a tight chamber with the main pipeline directly in the middle, therefore the sump pit for pump installation only measured 500 x 500mm.



2 SOLUTION

We used a Tank 355 Submersible Drainage Pump which only measured 306mm in diameter, allowing the pump unit to fit within the sump pit. We then used overpumping to remove the salt water. The system was configured to discharge wastewater directly to a designated wastewater manhole through a 100m layflat hose, ensuring controlled and environmentally safe water disposal. Additionally, a control panel and a 6m rubber discharge hose were also supplied.

3 OUTCOME

Our system was able to successfully remove 180m³ of salt water in 4 hours, achieving a flow rate of 48m³/hr @ 17m total dynamic head – meeting the time and performance objectives set by the client. The client expressed full satisfaction with Khansaheb Sykes' performance.





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