

Raw Sewage Lift Pump Indah Water

Application market	Wastewater
Market segment	Wastewater Collection
Pumped medium	Wastewater
Pump product	Immersible
Country	Malaysia



Challenge

Putrajaya is being developed as a new Federal Government Administrative Centre for Malaysia. With an expected population of 588'550, Putrajaya is intended to become the country's showcase and, with innovative concepts and ideals in planning and design, an ultra-modern city. It is to be equipped with state-of-the-art facilities and technologies and live up to its status as the Federal Government's Administrative Centre. In this connection, the development of all infrastructures in Putrajaya will also be developed and designed with the same goals in mind. The development of the wastewater system for Putrajaya comprises a modern, water-based wastewater collection system with pump stations and centralized wastewater treatment plants (STP). Two sites for these STPs have been identified; STP1 in the northeast of the planned urban area with a surface for 75,000 inhabitants and STP2 in the south for 600,000 people. Efficient, reliable and maintenance-friendly pump solutions that meet the high requirements of the operator were demanded.

Solution

Six for wastewater treatment plant STP1 and Twelve for STP2 non-clogging Hidrostat Screw Centrifugal Immersible Motor Pumps with large free passage were integrated into the system.

Benefits

The customer's high requirements for a reliable, non-clogging and maintenance friendly pump system could be met satisfactorily. The systems work trouble-free and make an important contribution to achieve the city's ambitious development goals.

Quantity of units sold	6 (STP1)	12 (STP2)
Pump type	F10K-SS1 + FEVB4	H12K-SD1 + HEUC4
Motor data	45 kW / 4 pole	110 kW / 4 pole
Material combination	Cast iron pump body and wear parts with nodular iron impeller	
Duty point	Flow: 202 litres per second Head: 16 meters	Flow: 480 litres per second Head: 16 meters
In operation since	2004	2011