Pulsar provides a perfect Open Channel measurement for a Malaysian master plan.

The large scale River of Life project based on Kuala Lumpur, Malaysia, has as part of its objectives to reduce the number of small treatment plants, concentrating wastewater treatment in a smaller number of modern, high-quality operations. Pulsar Measurement has supplied, via its Malaysian distributor HSA Asia a FlowCERT system for open channel flow measurement to Ekovest KL Bund Sdn Bha (EKLB), main contractors for the Bunus Sewage Treatment Plant (STP), which is being expanded from its current 750,000 PE (Population Equivalent) capacity to as much as 3,000,000 PE, without requiring additional land.

It would have been prohibitively expensive to have installed a Parshall flume for the expanded capacity of the treatment works, so HSA proposed a Pulsar Measurement system to operate effectively within a concrete inlet pipe. For open channels without a primary measurement device (PMD), Pulsar Measurement's FlowCERT system makes a velocity x area calculation of flow rate by combining measurements made by a pair of non-contacting sensors - Pulsar's MicroFlow Radar velocity sensor and dBMACH3 ultrasonic level.

MicroFlow uses Radar and a spread spectrum analysis technique to measure flow velocity

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across the width of the flow, while the dBMACH3 uses the familiar time-of-flight ultrasonic principle, its high frequency 125 kHz operation contributing to a high accuracy measurement. Both MicroFlow and dBMACH3 perform initial signal processing within the transducer before the measurements are integrated within the FlowCERT controller to calculate the flow rate, which can then be communicated to the Bunus STP control system. FlowCERT is pre-configured with the equations necessary to calculate the flow rate as the level and velocity changes within a round section pipe and is also pre-loaded with the necessary equations for other channel shapes.

The Pulsar equipment is compact and easily installed and configured, and Pulsar supported the installation from our Sales Offices in Kuala Lumpur.

Featured Products

FlowCERT

dBMACH3

MicroFlow

Delivering the Measure of Possibility

Pulsar Measurement offers worldwide professional support for all of our products, and our network of reps and distributors all offer full support and training. Our facilities in Malvern, UK and Largo, USA are home to technical support teams who are always available to answer your call or attend your site when required. Our global presence, with direct offices in the UK, USA, Canada, and Malaysia allow us to create close relationships with our customers and provide service, support, training, and information throughout the lifetime of your product.

By taking a step forward in echo processing technology, Pulsar Measurement addresses applications previously thought to be beyond the scope of ultrasonic measurement. This technology improves signal processing at the transducer head which has made it possible to increase resistance to electrical noise, enabling the transducer to 'zone in' on the true echo.

For more information, please visit our website:

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