

Headline : Langat 2 Plant sets triple national record
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Langat 2 Plant sets triple national record

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(From left) National Water Services Commission chairman Datuk Abdul Kadir Mohd Din, Pengurusan Aset Air Bhd (PAAB) chief executive officer Zulkiflee Omar, PAAB chairman Datuk Seri Jaseni Maidinsa, Salcon Engineering Bhd executive deputy chairman Tan Sri Tee Tiam Lee and CEO Jamiluddin Amini Sulaiman at the awards ceremony to mark Langat 2 Water Treatment Plant's Package 3's entries in the 'Malaysia Book of Records', in Kajang yesterday. - NSTP/SAIFULLIZAN TAMADI

KUALA LUMPUR: Malaysia's water infrastructure took a transformative leap yesterday as Pengurusan Aset Air Bhd (PAAB) celebrated the official recognition of Langat 2 Water Treatment Plant's Package 3 with three entries in the Malaysia Book of Records.

PAAB chief executive officer Zulkiflee Omar said the completion of Package 3, officially delivered on April 13, was not just another infrastructure milestone but a transformative step for Malaysia's water sector.

"This achievement marks our collective progress towards a future grounded in sustainability, safety and innovation not only in water infrastructure, but in Malaysian engineering as a whole," he said during the awards ceremony at the Package 3 Project site here yesterday.

The RM209.95 million project was recognised for three achievements: the first pipe conveyor system for water treatment residuals in Malaysia, the longest pipe conveyor system for



water treatment residuals at 1.918km and the longest shaftless screw conveyor system at 46m.

Zulkiflee said the award-winning facility demonstrates Malaysia's capability to deliver world-class engineering solutions while prioritising environmental and operational sustainability.

"This is not just an operational enhancement. It is a forward-thinking solution rooted in environmental, social and governance principles."

With a treatment capacity of 1,130 million litres per day, Langat 2 is one of the largest water treatment plants in the country.

The facility can generate up to 400 tonnes of residual waste daily, depending on the quality of raw water sourced from Sungai Semantan, which is channelled from the Kelau Dam in Pahang through a 45km gravity-fed tunnel beneath the Banjaran Titiwangsa.

Zulkiflee said that under conventional methods, managing such a volume of waste would require 96 lorry trips per day, or more than 35,000 trips annually, causing road congestion, safety risks, emissions, and health concerns for nearby communities.

"Just imagine the carbon emissions, the diesel burnt, and the public health risks if we had relied on trucks. This innovation alone reflects how infrastructure can, and must be, aligned with national sustainability goals and community welfare," he said.

He said the enclosed pipe conveyor system, capable of transporting 120 tonnes per hour, connects the plant directly to a dedicated landfill site near the Bukit Enggang Balancing Reservoir in Bandar Mahkota Cheras.

"It traverses granitic hills, clay soil, roadways, and even the East Klang Valley Expressway, a true testament to Malaysia's engineering ingenuity."

The system reduces fossil fuel dependency, airborne dust, and odour pollution, while enhancing long-term operational resilience and lowering greenhouse gas emissions.

Zulkiflee thanked all parties involved in the successful delivery of Package 3, including the main contractor Salcon Engineering Bhd, as well as consultants, stakeholders, and government agencies.

"These achievements are more than accolades. They are symbols of what can be accomplished when vision meets execution, and when sustainability is built into design.

"We are humbled and inspired to continue pushing boundaries, building better, and serving our nation with distinction."

The completion of Package 3 marks the final milestone in Phase 1 of the Langat 2 mega project, which comprises 26 infrastructure packages across key corridors in the Klang Valley.

Present were PAAB chairman Datuk Seri Jaseni Maidinsa, National Water Services Commission chairman Datuk Abdul Kadir Mohd Din, Salcon Engineering Bhd executive deputy chairman Tan Sri Tee Tiam Lee and CEO Jamiluddin Amini Sulaiman, Kajang Municipal Council president Nazli Md Taib, and Malaysia Book of Records representative Edwin Yeoh.

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