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Media Release

DATO' IR. PATHMANATHAN K.
CEO, PBAHB and PBAPP.

NEW MACALLUM - BUKIT DUMBAR PIPELINE: MORE WATER TO SOUTH-WEST DISTRICT OF PENANG ISLAND

- **1.8m x 3.9km pipeline from the “landing point” of the 3rd Penang Twin Submarine Pipeline to the Bukit Dumbar Reservoir and Pumping Station Complex.**

PENANG, Wednesday, 6.5.2026: PBAPP will lay 2 major pipelines to deliver more treated water from the Sungai Dua Water Treatment Plant (WTP) on the mainland to the South-West District (DBD) on Penang Island.

- The first pipeline will connect the Sungai Dua WTP to the Butterworth “take-off point” of the 3rd Penang Twin Submarine Pipeline (3rd PTSP). This 1.8m pipeline is projected to span a total distance of about 13km on the mainland.
- A second 1.8m pipeline will connect the Macallum Area “landing point” of the 3rd PTSP to the Bukit Dumbar Reservoir and Pumping Station Complex on the island, over a distance of about 3.9km.

These 2 major pipelines are the components of Phase 3 of PBAPP’s Water Contingency Plan 2030 (WCP 2030). The estimated total cost is RM416 million, inclusive of pipeline purchases, pipe-laying work, road digging and reinstatement works, as well as land acquisition costs.

Future water demand in DBD

In 2025, the recorded water consumption in DBD was about 202 MLD or about 23.2% of the total state consumption of 865 MLD.

Looking ahead, PBAPP projects DBD water consumption to increase by about 100 MLD (49.8%) to 302 MLD by Year 2030, primarily due to:

- Factory expansion projects;
- Property development projects; and
- Development of the Penang Silicon Island.

As such, we are undertaking these 2 major pipe works to address projected future water demand on the island.

Work to lay the new Macallum - Bukit Dumbar pipeline will commence first. This project is scheduled to begin in May 2026; and it is scheduled for completion by December 2027.

Scheduling details for the Sungai Dua - Butterworth segment will be announced later. We are finalising the alignment, working with authorities such as the Malaysian Highway Authority (MHA), Public Works Department (JKR) and Seberang Perai City Council (MBSP).

Please note that this mainland waterworks project will involve pipe-laying works for 13km of a major 1.8m pipeline along highways and roads, as well as land acquisition.

WCP 2030 strategies

The RM2.1 billion WCP 2030 is being realised in accordance to the following strategies:

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| <ul style="list-style-type: none"> • Unlock and optimise available in-state raw water resources for Penang. | Phase 1 & Phase 2 |
| <ul style="list-style-type: none"> • Increase water treatment capacity in Seberang Perai (and reduce dependency on the Sungai Dua WTP in Seberang Perai). | |
| <ul style="list-style-type: none"> • Pump more treated water from the Sungai Dua WTP to Penang Island. | Phase 3 |

Phase 1 of the WCP 2030 has been completed. The water treatment capacities of the Bukit Panchor WTP and Sungai Dua WTP in Seberang Perai have been upgraded by 10 MLD and 114 MLD respectively.

Phase 2 involves the on-going development of 4 new WTPs to tap the following additional raw water resources by 2030: the Expanded Mengkuang Dam, Sungai Kerian and Sungai Perai. We will also build a new WTP at Sungai Muda to optimise it as a raw water resource.

Phase 2 will reduce dependency in Seberang Perai on treated water from the Sungai Dua WTP.

As such, PBAPP will be able to pump more treated water from the Sungai Dua WTP to Penang Island through the Phase 3 pipelines and the 3rd PTSP.

The overall objective is to ensure balanced water supply sufficiency in Seberang Perai and Penang Island until Year 2030.

Thank You.

Issued by : Syarifah Nasywa bt Syed Feisal Barakbah
Corporate Communications Unit
Email : comms@pba.com.my