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 Media Release

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

RM800 MILLION+ FEDERAL GOVERNMENT WATER PROJECTS FOR PENANG

- **Including a new pipeline to boost maximum drawdown from the Expanded Mengkuang Dam (EMD) from 600 MLD to 1,000 MLD during prolonged hot and dry seasons and Sungai Muda emergency scenarios.**

PENANG, Wednesday, 15.4.2026: The Ministry of Energy Transition and Water Transformation (PETRA) is planning and implementing federal-funded water projects with an estimated total cost exceeding RM800 million in Penang.

The Ministry's Water Supply Division (BBA) is undertaking the following 5 projects:

Projects	Estimated cost (RM million)	Targeted completion
1. New Sungai Muda Barrage at Rantau Panjang (Seberang Perai Utara – SPU)	175.0	2027
2. Mengkuang Dam Expansion Plan (MDEP) final projects: <ul style="list-style-type: none"> • 440 million litres per day (MLD) Lahar Yooi Raw Water Pump House near the Sungai Dua Canal, SPU; and • 400 MLD “reversible flow” raw water pipeline from Lahar Yooi to the Expanded Mengkuang Dam (EMD) 	214.0	2028
3. Raw water resource projects at Sungai Kerian (Seberang Perai Selatan - SPS), in regard to the feasibility of expanding the Bukit Panchor Dam and construction of an off-river storage scheme (ORSS)	419.0	Dates to be set after completion of feasibility studies in 2026
4. Water intake works at Titi Kerawang and Teluk Awak in Teluk Bahang (South-west District of Penang Island), including laying a new pipeline from Titi Kerawang to the Teluk Bahang Dam	26.5	2029



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5. Comprehensive study on raw water resources for water supply in the State of Penang	3.0	2029
Total estimated cost (RM million)	837.5	

Key Benefits

- The **440 MLD Lahar Yooi Pump House** will facilitate more efficient and faster refilling of the EMD during wet seasons.

Raw water from the pump house will be channelled to the EMD through a new **400 MLD reversible flow pipeline** during wet seasons.

On the other hand, during dry seasons (and emergency scenarios), the pipeline may be used to draw down more water from the dam. It will boost the maximum drawdown capacity of the EMD to the Sungai Dua Canal (leading to the Sungai Dua Water Treatment Plant) from 600 MLD to 1,000 MLD.

As such, the commissioning of these 2 projects will optimise the functionality of the EMD as Penang's "back-up" raw water resource for Sungai Muda. With these 2 final MDEP components in place, PBAPP will be able to minimise the risks of a state-wide water supply interruption whenever something untoward happens at Sungai Muda.

- The **new Rantau Panjang Barrage** will replace an existing old barrage which has been in service since 1973. Its primary functions are to prevent incursion of sea water upstream into the Sungai Muda river system and to control river levels. As such, the new barrage should enable more efficient and effective abstraction of water from Sungai Muda at Penang's Lahar Tiang Intake as well as 10 Kedah water treatment plants and 8 irrigation intakes.
- **Expansion of the Bukit Panchor Dam** and the construction of the **Sungai Kerian ORSS** will upgrade water supply services in SPS until the full commissioning of the inter-state Perak-Penang Water Project (P-PWP).
- The **Titi Kerawang, Teluk Awak and Teluk Bahang Dam** waterworks will enable faster refilling of the dam during wet seasons and therefore upgrade its performance as an essential raw water resource in the south-west district of Penang Island.



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- A new **study on raw water resources** will serve as an updated basis and/or reference for future water supply projects in the State of Penang.

Please note that these Federal Government water projects are standalone projects that are being undertaken **in addition to PBAPP's RM2.1 billion Water Contingency Plan 2030 (WCP 2030) and the P-PWP.**

Acknowledgements

On behalf of PBAPP, I thank the BBA in PETRA for agreeing to take on additional water projects for Penang.

We will continue to extend our fullest support for Federal water projects because Penang is fundamentally a water-stressed state with limited water resources and unlimited socioeconomic potential.

Let us continue to work together to achieve water security for Penang, in support of the Penang2030 vision of making this state "a family-friendly, green and smart state that inspires the nation".

Thank You.

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