# Pilot Project for Emergency Measures to Improve the Water Environment in the Likas Bay, Kota Kinabalu, Malaysia



### Implementing Organization

NJS Consultants Co., Ltd., DHS Technology Co., Ltd., Sanki Engineering Co., Ltd. and Sekisui Plastics Co., Ltd. (joint venture)

## Background

- Contamination is becoming more serious in the Likas Bay in Kota Kinabalu City due to rapid urbanization, aging of sewerage facilities, and lack of maintenance.
- Lack of budget causes poor operation and maintenance, thus energy-saving and low-running cost wastewater treatment technology is required.
- Pipe installation and house connection for all the catchment area take much time, thus emergency measures are necessary.



- A model for improving water quality of water body better, faster, and cheaper by direct purification or installing additional equipment for existing wastewater treatment is proposed.
- Utilization of ICT (Information and Communication Technology) to remotely monitor these facilities from Japan will be studied.

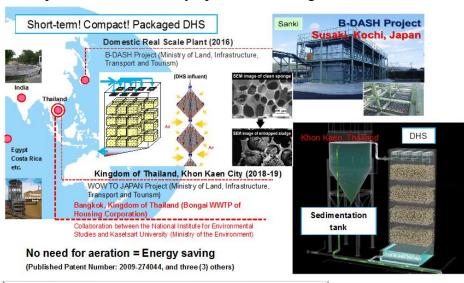
#### Location

• Inside the premises of sewerage facility (pumping stations) in Kota Kinabalu, Malaysia

## Outline of Technology

<Features of DHS>

- Energy saving due to the elimination of aeration system
- Less maintenance due to high concentration of sludge (20-40 kg-DS/m³-sponge) and low excess sludge generation
- Optimal technology for emerging countries where are warm/ tropical climate with easy operational management.



## **Expected Results and Business Prospects**

- Improving water quality and reducing odor along the Likas Bay
- Effective use of land through compact facility
- Positive impact on tourism and marine products
- Depression of water-based diseases
- Overseas business development for Japanese companies with low risks