

This document describes a study trip of Indonesian experts in the field of water construction to the Netherlands. It was part of the Implementing Vocational Education Programme for Water Construction workers, which was executed by the World Water Academy and VAPRO Indonesia. The World Water Academy was responsible for the programme outline, guest speakers and the logistical arrangements.

Johan Oost | World Water Academy - June 2012

Sunday 3rd June

The participants of the expert trip arrived at Schiphol Amsterdam at 6.00 in the morning. After checking in at the hotel, the participants got acquainted with each other during site visit to the old city of Amsterdam, including a walk and a canal tour lead by Mr. Johan Oost (Wateropleidingen and project leader of the study trip). The participants could rest and/or visit Amsterdam at their own.



Monday 4th June

At first, the participants visited the office of Waternet. Johan Oost welcomed the participants. He gave a short introduction of this week's programme. He also asked the participants about their background, the role in the project and expectations of this study trip. Mr. Twan Brinkhof (project

leader of Waternet's activities in Indonesia and expert water retaining structures) gave a presentation about Waternet as organization in the Dutch water sector and the activities in Indonesia. After that he presented the history of water management in the Netherlands, the current situation on flood management and the impact on dike design. He also showed examples of water construction works in and around Amsterdam, including the yearly test of the closing of the locks at the IJ.

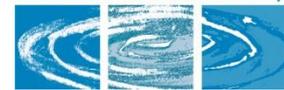


After the lunch, Mr. Eljakim Koopman (expert in water retaining structures) guided the group at a field trip to the reclaimed polder 'Watergraafsmeer'. The group visited six sites in the polder to ... After that a visit was arranged to the artificial island 'IJburg'. Eljakim Koopman, together with Johan

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Oost showed the group around and discussed the construction and implications of the artificial island. At the end of the day, the group visited the Oranjesluizen (locks between the river IJ and the IJ Lake). The participants

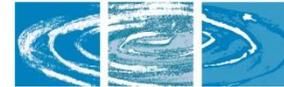


Tuesday 5th June

The group started at the office of Oasen in Gouda. Because of the cancelling of the Tuesday's programme by BAM, Mr. Roy Kraft van Ermel (representative of water board Hoogheemraadschap Schieland en Krimpenerwaard in Semarang) helped to arrange a new programme for this day. The experts were welcomed by Mr. Walter van der Meer, director of Oasen, a drinking water company. After this Mr. Dick Konijn gave a presentation on urban dredging & logistics. He showed the principles and importance of urban dredging on the urban water system. He gave examples of dredging techniques and showed some movies about urban dredging in the Netherlands and Indonesia. The importance of QSHE (Quality, Safety, Health and Environment) was discussed in the group.



After the lunch the participants had a special tour through the old inner city of Gouda. A specialist in Gouda's history, showed the old city of Gouda by foot. He put a lot of attention to the influence of water-related constructions. He told about a special hydraulic system to clean the



canals of Gouda, because of the collection of wastewater. The group visited some of the old canals and embankments, locks, sluices and some locations, higher than the surrounded areas.

The participants will hear about safety issues in water construction and the role of education and training. Main attention was paid at QSHE (Quality, Safety, Health, Environment) measures during water construction activities and Dutch water management and construction in practice.



Wednesday 6th June

In the morning we will have a presentation about water construction and education on various levels at STC in Rotterdam. After that, we will take the train to the city of The Hague. The participants will visit the Netherlands Water partnership in The Hague. The Association of the Water Construction Workers (Mr. Henry Bleker) in the Netherlands will be there as well. The central theme of this day is the role of the association on the level of education of water construction workers and the strengths of uniting the sector.

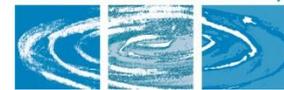
During the visit to STC (Scheepvaart & Transport College), the group got a presentation about the institute, activities on dredging and a tour to the practical laboratories, the dredging simulators and the exercise pontoon. Rotterdam University of Applied Sciences gave more insight about the programmes on bachelor level. The Netherlands Water Partnership and Dutch Association of Dredging Contractors (Vereniging van Waterbouwers) presented their own partnership in the water (construction) sector and their influence on water (construction) education.



Thursday 7th June

Meeting at VAPRO in The Hague. A programme will be held on water construction and education. VAPRO Indonesia and Wateropleidingen will present their views, strategy and experiences on education and training in a specific sector. We will also discuss about the general project. A site visit will be held to the Maeslant Storm Surge Barrier in Maassluis near Rotterdam. A field trip will be held to Future Land (or Maasvlakte II), the latest large-scaled land reclamation project in The Netherlands.





The group of experts visited the Maeslant Storm Surge Barrier and Future Land (Maesvlakte 2) to get an impression about some large scaled water construction works in the Netherlands.

Friday 8th June

Visit to water board Hoogheemraadschap Schieland en Krimpenerwaard (HHSK) in Rotterdam. They will present a programme about O&M, water construction and being a water board. HHSK founded the first water board of Indonesia in Semarang. We will have some presentations of Mr. Johan Helmer and and will also visit a site about water construction in urban areas.



After the lunch we will visit the Kop van Zuid to have presentations of the Rotterdam Municipality (Mr. Joris Goos) and the Rotterdam University of Applied Sciences (Mr. Rick Heikoop) about water construction in general and water construction and education. One of the topics will be Connecting Delta Cities, a worldwide programme with Jakarta and Rotterdam amongst the participating cities.



The Municipality of Rotterdam and the Rotterdam University of Applied Sciences gave presentations about the influence of a changing (urban) environment and climate to water construction in the city. The group visited the city of Gouda for a historic trip along water construction sites in the city.

Saturday 9th June

During this last day in The Netherlands the participants got some free time to spend in Rotterdam, before going to Schiphol to take the plane to Jakarta.

