

# The 10<sup>th</sup> JOINT WORKSHOP HELD IN TOKYO, JAPAN

From 29th to 30th October 2013

The 10<sup>th</sup> Joint Workshop for the technology and policy research of Road and Transport was held in Tokyo by NILIM, Japan and IRE, Indonesia (\*) with sister organizations from 29th to 30th October 2013.

(\*)IRE, Indonesia: Institute of Road Engineering, Indonesia

## 1. The theme for this time WS

In this 10<sup>th</sup> Joint Workshop, held study tour about roadside station (Michinoeki) and picked up 2 themes focused on;

- 1) Tunnel And Underground Structure
- 2) Asbuton Research Project To Environment Mitigation



The 10th Joint Workshop

## 2. Outline of Technical Session

### 1) Study Tour about Roadside Station (Michinoeki)

The members of IRE are interested in Roadside station (Michinoeki). Therefore, they visited to Michinoeki. In addition, as a candidate for comparison, they visited to parking area of highway and roadside shopping mall.



### 2-1) Tunnel And Underground Structure

Indonesia side introduced the national transportation system, the history and regulation of tunnel construction in Indonesia. Japan side presented the tunnel construction technology under small overburden and unconsolidated ground condition, and seismic design of tunnel. And, visiting researcher from IRE to PWRI presented the research achievement of the numerical analysis associated with small overburden tunnel excavation. The future research project was discussed and further research cooperation between the two countries was confirmed.



### 2-2) Asbuton Research Project To Environment Mitigation

This workshop was attended by 8 participants from IRE (2 persons), PWRI (3 persons), JMAA (3 persons).

At first on this workshop, the presentation about polymer modified asphalt (PMA) in Japan such as history, shipment, type of PMA, and so on was carried out. Then both sides discussed 2 topics.

1. Technical guidelines of PMA in Japan
2. Subjects on estimation Asbuton Technical Center



In this session, both institutes agreed following

1. To apply guidelines of PMA in Japan into Indonesia, it should be arranged to meet situation and location in Indonesia.
2. Information and supports to estimation Asbuton Technical Center must be continued through this collaborative workshop.

### 3. Reference (History of the Cooperation)

At the 18th Conference of Research and Development of Public Works in Asia (on the theme of Unique Road-Policy Applied to The Regional Conditions and Issues), the National Institute for Land and Infrastructure Management (NILIM) and the Research and Development Center for Road and Bridge (RDCRB) signed a memorandum concerning the cooperation activities at NILIM in TSUKUBA, November 2009.

Under this memorandum, the NILIM and RDCRB will continually share research information by, for example, jointly holding technical seminars and will actively exchange researchers to strengthen links between NILIM and Asia and to form international human networks, thereby providing technical supports for the growth in Asia.

2009.06 Pre-meeting in Jakarta and Bandung

2009.11 Tsukuba, MoU(C) agreed in general

2010.03 Bandung, (1st Joint Workshop for targeting the themes)

2010.06 Tsukuba, joint meeting for Bali coming symposium.

2010.10 International Symposium in Bali

(2nd Joint Workshop to declare the strategy for cooperative researches)

2011.01 Jakarta, (3rd Joint Workshop to make the Road maps (1))

2011.06 Sulawesi, (4th Joint Workshop to make the Road maps (2) and site observation)

2011.09 Technological Tour in Japan for modernizing experimental Equipments and Facilities of RDCRB (IRE)

2011.10 Lombok, (5th Joint Workshop / Bilateral Seminar)

2012.03 Jakarta and Bandung, (6th Joint Workshop including River and Water Resource issue)

2012.06 Batam, (7th Joint Workshop Road maps (Bridge / Tunnel) and Open Seminar (Long Span Bridge and Tunnel Technology))

2012.06 Trilateral Workshop for the Interim Report in Tsukuba

2013.01 Jakarta, (8th Joint Workshop Road maps (Road Environment/ IPT/ Traffic Safety/ Pavement/ Tunnel))

2013.08 Padalarang-Bandung, (9th Joint Workshop Road maps (IPT/ Traffic Safety/ Pavement/ Tunnel))

(International Research Division)