

The 9th JOINT WORKSHOP
HELD IN PADALARANG-BANDUNG, INDONESIA
From 29th to 30th August 2013

The 9th Joint Workshop for the technology and policy research of Road and Transport was held in Jakarta by NILIM, Japan and IRE, Indonesia (*) with sister organizations from 29th to 30th August 2013.

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

1. The theme for this time WS

In this 9th Joint Workshop, hold “International seminar on traffic survey method using image processing technology” and picked up 4 themes focused on;

- 1) Traffic Volume Survey using Image processing Technology (IPT)
- 2) Traffic Accidents Black Spot Countermeasures
- 3) Tunnel And Underground Structure
- 4) Asbuton Research Project To Environment Mitigation



Group Photo (at the 9th Joint Workshop)

2. Outline of Technical Session

1) International seminar on traffic survey method using image processing technology

Seminar was attended by 115 participants and opened by Director of Institute of Road Engineering, The Agency for Research and Development Ministry of Public Works Republic of Indonesia, Mr. Herry VAZA and Speech from Japan side was delivered by Director of International Research Division of National Institute for Land, Infrastructure and Management (NILIM), Mr. Shinri SONE.

5 papers related to Traffic Survey Method had been presented; first, Current Practice of Automatic Traffic Counting in Indonesia presented by Mr. Handiyana and Mr. Disi Hanafi from IRE. Second, Major Findings Obtained from the Joint Study for Traffic Volume Survey Using Image Processing Technology presented by Mr. Hirotsuka Sekiya from NILIM. Third, Traffic Conflict Studies and Black Spot Countermeasure Development presented by Mr. Idris Loebis from IRE. Fourth, Black Spot Countermeasures and the Effectiveness Analyzed by Video Camera presented by Mr. Nozomu Mori from NILIM. Last, Probability Model to Predict Carbon Monoxide (CO) and Hydrocarbon (HC) for Motorcycle Emissions presented by Mr. Agah Mulyadi from IRE.



2-1) Traffic Volume Survey using Image processing Technology (IPT)

It was confirmed that the targets for the first term (2010 to 2013) were successfully achieved. The targets are: 1) confirming the applicability of IPT to traffic volume survey in Indonesia and 2) clarifying the optimum camera settings to measure traffic volume the most accurately under given circumstances.

It was agreed that we continue the joint study for another 3 years as the second term beginning in 2014. The target for the second term is to develop a framework that allows a record of the number of axles of vehicles, which is obtained from the LPS device, to be added to the corresponding record of vehicles, which is obtained from the IPT device.



2-2) Traffic Accidents Black Spot Countermeasures

It was confirmed that the targets for the first term (2010 to 2013) were successfully achieved.

It was agreed that we continue the joint study for another 3 years as the second term beginning in 2014. The target for the second term is to develop a guideline that shows 1) how to set cameras to obtain traffic video images so as to effectively identify problems regarding road safety and 2) how to select countermeasures from the traffic video images.



2-3) Tunnel And Underground Structure

In this meeting about the tunnel and underground structure, the presentations about the urban tunnel construction technology of Japan, mainly the shield tunneling method, were carried out. Afterwards, field survey and discussion of design of the Indonesian's first road tunnel currently in planning was carried out. The draft of the auxiliary method guidelines which was written jointly was also discussed. It was confirmed that we set a goal to complete the guidelines by 2014 first half and to hold a seminar related to the guideline.



2-4) Asbuton Research Project To Environment Mitigation

This workshop was attended by 8 participants from IRE (4 persons), PWRI (3 persons) and Indonesia counterparts (1 persons).

On this workshop, both sides discussed 5 topics related to Asphalt Butons;

1. Asbuton extraction in Indonesia (presented by Mr. Willy Pravianto from IRE)
2. The Experimental Results on Rheological Properties of Extracted Asphalt Using Various Solvents (presented by Dr. Sasaki from PWRI)
3. Guss Asphalt Using Asbuton as Alternative TLA (presented by Dr. Kawakami from PWRI)
4. Guss asphalt for patching (presented by Mr. Madi Hermadi from IRE)
5. Hot mix Asbuton Cold Paving (presented by Mr. Nyoman Suaryana from IRE)

In this session, both institutes agreed to extended additional 3 years joint research collaboration in Asbuton to environment Mitigation and made the arrangement of research activities for future.



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))

(International Research Division)