

## The 15<sup>th</sup> JOINT WORKSHOP HELD IN TSUKUBA, JAPAN 5<sup>th</sup> to 9<sup>th</sup> February, 2016

The 15<sup>th</sup> Joint Workshop for the technology and policy research of Road and Transport was held in Tsukuba by NILIM, Japan and IRE, Indonesia\* with sister organizations on 5<sup>th</sup> to 9<sup>th</sup> February 2016.

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

The activities of 15<sup>th</sup> Joint Workshop are as follows;

- 1) Discussion and Site visit for Michinoeki
- 2) Discussion and Site visit for pavement (AsButon Research Project)



The 15<sup>th</sup> Joint Workshop at NILIM



The 15<sup>th</sup> Joint Workshop at PWRI



Member for AsButon Research Project



Discussion for AsButon Research Project

## 1. Schedule

### • 5th February

Site Visit of mixture test laboratory for Guss Asphalt (private company)

Discussion for AsButon Research Project

### • 8th February

Discussion for AsButon Research Project

Site Visit for PWRI experiment facilities

### • 9th February

Site Visit for "Michinoeki MOTEGI" at Tochigi Prefecture

Site Visit of material test laboratory for Asphalt (private company)

## 2. Contents

### • About pavement (AsButon Research Project)

Discussion session and site visit session were conducted.

At the discussion session, the outcomes of the “AsButon research project and chemical property of AsButon” was reported by Dr.SASAKI, PWRI. In addition, the presentation about “AsButon for maintenance material” was delivered by Dr.KAWAKAMI, PWRI.

Also, Dr.MADI from Indonesia reported “Bitumen Rheology and Mixture Performance of AsButon” and “Characteristics of Hot Mix AsButon”

Based on these reports, NILIM and IRE discussed future research plan of AsButon.

At the site visit session, they looked over “Accelerated pavement test facility” and “Earth structure laboratory” located PWRI. Also they visited a material and mixture laboratory by private company.



Site Visit for Guss Asphalt Test

• About Michinoeki

At Japan and Indonesia joint workshop in February 2016, they looked over the “Michinoeki” in Japan.

Mr. Herry VAZA, the head of IRE and IRE staff visited “Michinoeki MOTEGI” in Tochigi prefecture with NILIM’s staffs. They got a lecture by the staff of Motegi town, its founder.

A unique point of “Michinoeki MOTEGI” comparing to the other Michinoekis is that it provides information, evacuation space, goods for emergency use etc. to the users just after serious natural disasters happen.

This site visit has given IRE side a new idea that Michinoeki has a vital role in not only ordinary days but also post-disaster period. Same as Japan, Indonesia is one of the natural disaster prone areas in the world so that this site visit could give some hints to think over functions with which a Michinoeki in Indonesia should be equipped.



Site Visit for "Michinoeki MOTEGI" in Tochigi Prefecture

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

The National Institute for Land and Infrastructure Management (NILIM) and the Institute of Road Engineering (IRE) signed cooperation arrangement in Indonesia, February 2014.

Under this memorandum, NILIM and IRE have been continually sharing research information by, for example, jointly holding technical seminars and actively exchanging 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 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))
2013.11	Tokyo, (10th Joint Workshop Road maps (Tunnel/ Pavement))
2014.02	Jakarta, Labuan Bajo and Denpasar, (11th Joint Workshop Road maps (Road Side Station of Corridor 5/ Road Environment/ IPT/ Tunnel/ Pavement))
2014.03	Tsukuba, (12th Joint Workshop Road maps(Michinoeki/ Pavement))
2014.10	Jakarta, (13th Joint Workshop Road maps (Tunnel))
2014.11	Bali, Flores and Buton, (14th Joint Workshop discussion for Road environment/ Road Side Station/ AsButon)

(International Research Division)