

THE JOINT MEETING HELD TO CONFIRM THE RESEARCH ROAD MAP CONCERNING THE DECLARATION OF THE INTERNATIONAL SYMPOSIUM 2010

The joint meeting for confirming the road maps on collaborative research projects related to the Declaration of International Symposium on Environmentally Friendly Road and Transport in Bali 2010 was held in Sulawesi, Indonesia from 31st May to 3rd June with IRE(RDCRB).

After presentations, discussions and observation at site, both of Indonesia side and Japan side (NILIM with sister organizations) concluded to confirm the road map (APPENDIX(1)) of AS-Buton (Indonesia natural rock asphalt) research project for environmental mitigation, which was identified in the Declaration for international research symposium in Bali 2010.10, being added to the other road maps (APPENDIX(2)) for Road environment (Motor cycle Co2 emission), Traffic survey (Image processing technology) and Tunnel and underground technology already agreed at the previous work shop held in Jakarta 26th January this year.

Both sides appreciate the vital importance of using local natural materials for environmental mitigation in public works in Indonesia, the environmental effects of which will be achieved through the reduction of energy being poured into public works. And the possibility of making use of AS-Buton for a base structural material of roads was also expected as the output of the research project, which will contribute to improving road networks and infrastructures with lower costs.

And at this opportunity both sides reached to agree a road map for road safety research project determined as a joint cooperation in the joint work shop on 26th January as well. This project is to be conducted by the related JICA expert in Jakarta under supports of NILIM.



Note: IRE(RDCRB) Institute of Road Engineering (Research and Development Center of Road and Bridge), Agency of Research Department, Ministry of Public Works in Indonesia

(International Research and Promotion Division)

Research Road Map for
“Asbuton (Indonesian Natural Rock Asphalt) Research Project
to Environmental Mitigation”

1) Period

Three years from 2011 to 2013

2) Target of the year

2011: Investigation of Asbuton material properties

2012: Evaluation of pavement materials using Asbuton

2013: Make-up the draft of the standards about Asbuton application

(※) Indonesia side has a vision of establishing the Asbuton Center

Research Road Map for
“Traffic Accident Black Spot countermeasures”

1) Period

Three years from 2011 to 2013

2) Target of the year

2011: Data collection of traffic flow and traffic accidents of sample Black Spots

2012: Trial countermeasures on sample Black Spots

2013: Evaluation of countermeasures and Make-up of the Guidelines

Note: All activities planned in the road maps here will be conducted under the limitation of annual budgets of respective institutes. These are not the international agreement but respective institutes will make efforts, together with related researchers and organizations, so as to achieve the useful technological outcome.

Research Road Map for Guideline Development for Environmentally Friendly Road

1) Objective:

The impact study of MC lane for the road capacity and the MC lane feasibility
The measurement of effectiveness of using MC in term of CO2 emission, capacity, and safety
Developing the possible resolution for Motorcycle utilization

2) Scope of the Roadmap

CO2 emission of motorcycle (MC)
MC investigation in Indonesia in real operation
Investigation of fuel efficiency in spesific route using MC and 4 – wheel vehicle with indication function of fuel efficiency
Coordinate the real fuel effieciency with quantity of refueling
Providing detailed monitoring equipment for 4-wheel vehicle
Traffic Capacity of specialized lane for MC
Analyze traffic capacity and characteristics by video monitoring
Enhacing Japanese theory on traffic capacity
Evaluation on applicability of MC lane
Probability of electric vehicle application
Research of electric supplying system
Investigation on applicability of electric MC on traffic
Providing electric MC for testing

3) Period of Research

Four years from 2011 to 2014

Research Road Map for “Traffic survey methods using image processing technology (IPT)”

1) Objective:

To develop methods and guidelines that make it possible to efficiently observe road traffic, especially motorcycles, in Indonesia

2) Scope of Roadmap:

2011: Conduct a feasibility study of the IPT
2012: Complete fundamental analyses to find out the limitations of using the IPT and identify the most appropriate traffic survey methods according to road types and traffic conditions
2013: Develop guidelines and disseminate the outcomes

Research Roadmap for

“Guideline Development for Tunnel and Underground Structure”

1) Objective

Developing technical guideline of tunnel construction through adoption of Japan guidelines, evaluation of experiment results by study and trial tunnel, dispatching experts

2) Target of the year:

2011-12: Mutual understanding about state-of-the-art of various tunnel construction methods

2013: Implementation and evaluation of research relating to tunnel and underground structure

2014: Make –up of technical guideline by Indonesia side, supported by Japan side and workshop in Indonesia

Note: All activities planned in the road maps here will be conducted under the limitation of annual budgets of respective institutes. These are not the international agreement but respective institutes will make efforts, together with related researchers and organizations, so as to achieve the useful technological outcome.