

Intercity Cooperation between Bandung City and Kawasaki City to improve Citarum river water quality in Indonesia

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Background - Relationship between Kawasaki City and Bandung City

2007-

Bandung city has been a participant in the Kawasaki International Eco-Business Forum since 2007 and fostered city-to-city cooperation with Kawasaki city.

on the 18th
of February
2016

Concluded the “Memorandum of Understanding (MoU) concerning City to City Cooperation towards Low Carbon and Sustainable Cities”.

2017-
2020
(3 years)

Waste management support project toward a sustainable resource recycling society in Bandung city, Indonesia

[funded by JICA Partnership Program (scheme for local governments)]

2019-
2021
(2 years)

Intercity cooperation between Bandung City and Kawasaki City to improve the water quality of Citarum river in Indonesia [funded by the Ministry of the Environment of Japan]

on the 6th
of February
2020

The “Memorandum of Understanding (MoU)” was renewed for 5 years. The specified fields are; Waste Management; Water Environment Management; and Air Quality Management



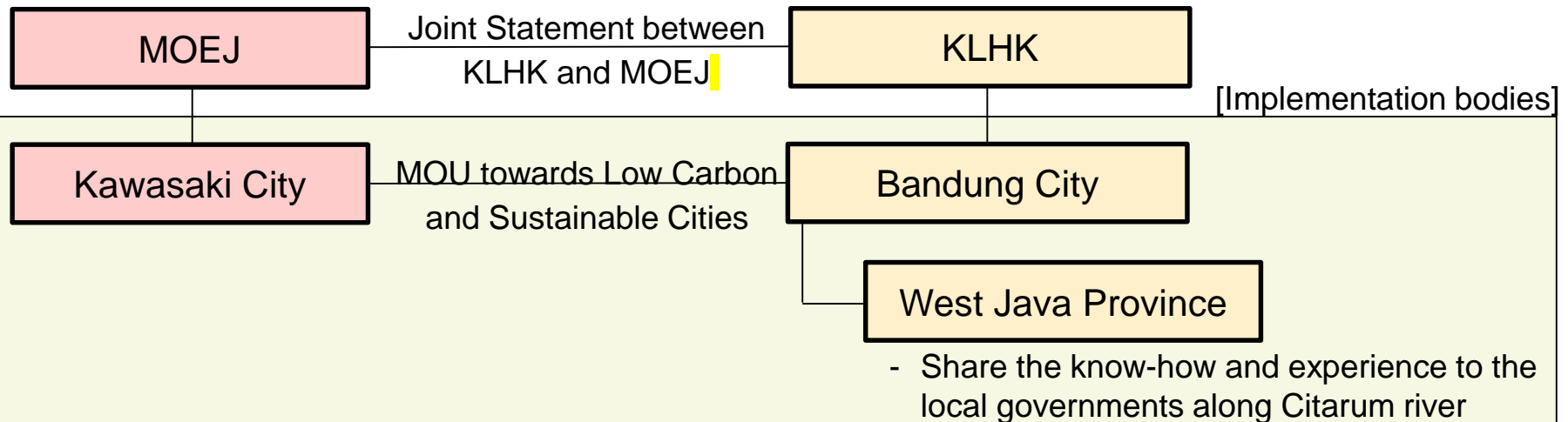
Conclusion of
the MoU
(Photo: February 2020)

Objectives and Implementation Structure

□ Objectives

1. **To improve the capacity of the Bandung City to formulate a water quality improvement plan (WQIP)** for a tributary of the Citarum river (Cipamokolan river)
2. **To improve the capacity to implement the following two measures** to manage river water quality
 - 1) **Water quality monitoring** - data management and utilization, methods of inspections etc.
 - 2) **Regulating and participatory approach** - for polluting industries, households etc.
3. **To disseminate** the know-how and experience shared through Objective 1 and 2 **to other local governments along the Citarum river**

□ Implementation structure



3 activities in inter-city cooperation

Activity 1: Workshop to support formulation of Water Quality Improvement Plan

Activity 2: Lectures on Regulating/Participatory approach and Monitoring

Activity 3: Dissemination of know-hows to other local governments

Activity 1: Workshop to support formulation of WQIP(1st Year)

Activity 1	Details	1 st Year Attainment
Workshop to support formulation of Water Quality Improvement Plan (WQIP)	<ul style="list-style-type: none">• Lectures on the basic approach to formulate administrative plans in general• Identified and put the factors/causes of pollution into perspectives using structure tree• Considered possible measures to address each factor/cause of pollution• Developed framework of a WQIP for Cipamocolan River	<ul style="list-style-type: none">- Developed pollution structure tree- Participants gained a certain level of understanding about the necessity of causal analysis

1st year - 4days, 30 participants including staff from the Province and other local governments



Activity 1: Workshop to support formulation of WQIP (2nd Year)

Activity 1	2 nd Year Activity	Bandung's expected activities after the WS
<p>Workshop to support formulation of Water Quality Improvement Plan (WQIP)</p>	<p>First half (2 days: December 22-23, 2020):</p> <ul style="list-style-type: none"> – Explanation of flows and points to formulate WQIP – Brainstorming exercise of problem structure analysis related to wastewater management <p>Second half (3 days: Jan. or Feb. 2021):</p> <ul style="list-style-type: none"> – Examination of WQIP framework and scrutiny of items and policies to be described in it – Detailed examination of measures, target setting, and schedule in the field of wastewater management – Examination of items to be described and policy in WQIP 	<ul style="list-style-type: none"> – Continued exercise of problem structure analysis related to waste water management – Detailed examination of measures, target setting and schedule to implement them – Add details to each section of the WQIP

5days, 20-30 participants, web-based workshop using Zoom

Activity 2: Lectures on Regulating/Participatory approach and Monitoring (1st Year)

Activity 2	Details	1 st Year Attainment
<p>Lectures in Japan</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"><p>5days, 4 participants from Bandung City</p></div> <p>Lecture in Indonesia</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"><p>2days, 30 participants including staff from the Province and other local governments</p></div>	<ul style="list-style-type: none"><li>• Lectures on the regulatory framework and its enforcement know-how of water quality monitoring and regulatory/social approach<li>• Advice from officials from Kawasaki City and suggestions from experts	<ul style="list-style-type: none"><li>– Gaining an understanding about regulatory/ social administration framework of Japan.<li>– Deepened understanding about the monitoring framework and its implementation.



Activity 2: Lectures on Regulating/Social approach and Monitoring (2nd Year)

Activity 2	2 nd year Approach	2 nd year Activity(Lecture themes)
<p>Lectures through Webinar</p> <p>5days, 20-30 participants, Webinar</p>	<ul style="list-style-type: none">• Lectures focusing on enforcement and past experience of Japan regarding regulating/social approach and monitoring• Introduction of appropriate technologies and approach suitable for Indonesian environment	<ul style="list-style-type: none">• Procedures and practices related to regulatory administration• Issues and points in formulating and responding to river water quality improvement measures in Kawasaki City in the past• Decentralized domestic wastewater treatment• Efforts to promote wastewater treatment for small businesses• Information disclosure and risk communication related to water pollution• Maintaining the accuracy of water quality analysis



Kawasaki Environment Research Institute (KERI)



Hotel in Bandung City

Activity 3: Dissemination of know-hows to the other local governments

- Activity 3
 - Organizing/supporting seminars
 - **Sharing know-how, knowledge and activity outcomes to other local governments**
- Workshop held in the first-year

Title	Workshop on River Water Quality Management Activities in West Java
Purpose	Sharing the progress of activities and exchanging opinions on the three initiatives
Place	Bandung city
Date	February 28, 2020
Participants	- Stakeholders involved in the implementation of the three initiatives - Staffs of local governments in the Citarum river basin (27 people in total) - Academia, Industry Organizations, etc.
Major Subjects	- Reports on WEPA Action Program, on Technical Assistance, on Intercity Collaboration etc.

- Activity of the 2nd year
 - Supporting this Citarum seminar among Environmental Week
 - Considering further dissemination activity (tentative)



Conclusion

- ✓ The training /workshop took a form of participatory approach and Indonesian side will need to work on the remaining areas of countermeasures based on the know-how acquired through the workshop.
- ✓ Experience of Kawasaki City when it was struggling with deteriorating water quality of the Tama River was shared with Indonesian side.
- ✓ Efforts and innovations of Kawasaki City to strengthen policy enforcement was shared.
- ✓ Information on Japanese technology like “jokaso” and septic tanks etc. were introduced. **Further business/technology matching will be necessary.**
- ✓ On-site visits to Kawasaki City were not possible due to travel restrictions and the impacts of the training were constrained and **continued intercity cooperation will be necessary.**

Thank you!!