

# 別添資料

1. 改定 R/D (Record of Discussion)

2. JCC (Joint Coordination Committee): Minutes of Meeting

- ・ 第 1 回 JCC 協議 (2023 年 2 月 14 日)
- ・ 第 2 回 JCC 協議 (2024 年 1 月 19 日)
- ・ 第 3 回 JCC 協議 (2024 年 6 月 11 日)

# 別添資料 1

改定 R/D (Record of Discussion)

**MINUTES OF MEETING  
FOR  
FIRST AMENDMENT OF THE RECORD OF DISCUSSION  
ON  
PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN  
STUDY ON THE NORTH COAST OF JAVA ISLAND  
IN  
THE REPUBLIC OF INDONESIA  
BETWEEN  
MINISTRY OF PUBLIC WORKS AND HOUSING  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY**

Jakarta, February 17<sup>th</sup>, 2023



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Mr. YASUI Takehiro  
Chief Representative  
JICA Indonesia Office

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Mr. Jarot Widyoko  
Director General  
Directorate General of Water Resources  
Ministry of Public Works and Housing  
Indonesia

The Japan International Cooperation Agency (hereinafter referred to as “JICA”) and Ministry of Public Works and Housing (hereinafter referred to as “PUPR”) hereby agree that the Record of Discussions on the Project on the Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island signed on March 31st 2022 (Annex 1) is amended and confirmed as follows.

1. Target Coastal Areas (Amendment on R/D)

Based on the minutes of meetings on the priority area selection for the Project (Annex 2) and the successive discussions between PUPR and JICA, both sides agreed that number and coverage of coastal areas to prepare the basic coastal management plan and the coastal facilities plan was amended as shown in the Table-1.

Table-1 Target Coastal Areas for Coastal Management Plan and Coastal Facilities Plan

Outputs	Target Coastal Areas	
	Original R/D (Annex-1)	Amendment
Basic Coastal Management Plan	Two areas in the Northern Coastal Areas of Java Island	Three areas as follows: - Indramayu West – Indramayu East - Pemalang – Pekalongan - Rembang – Tuban
Coastal Facilities Plan	Two areas in the Northern Coastal Areas of Java Island	To be selected the sections <sup>1)</sup> properly from the three areas above

1): Definition of areas which are related to Coastal Management Plan and Coastal Facilities Plan is refer to Annex-3

2. Criteria to Select the Sections for the Coastal Facilities Plan (Supplement to R/D)

In additions to the selection criteria listed in R/D, which are 1) Representativeness, 2) Priority by the PUPR and local governments, 3) Priority on coastal utilization / land use, 4) Potential adverse impact on the environment and society, the following three criteria will be evaluated to select the sections for the coastal facilities plan under the jurisdiction of the PUPR.

- Feasibility in realization:  
Having no limiting factors such as competitive projects, limitations due to the spatial plan and environmental and social issues.
- Feasibility in cost and benefit aspect
- Consistency with basic policy on Coastal Management Plan considering harmonization of coastal protection, environment, utilization and development

3. Conducting Preliminary Study at Demak (Supplement R/D)

Both sides agreed that the preliminary study at Sayung Area in Demak will be conducted in this study refereeing to available documents and information. The following studies are assumed, which are different from the study of basic coastal management plan and coastal facility plan for

selected 3 areas above.

- Data and information collection for previous studies, investigations, etc.
- List up the expected required actions against tidal flood due to land subsidence
- List up the options for preliminary idea of risk reduction plan against tidal food

4. Revise of JCC members

Both sides agreed that the Peatland and Mangrove Restoration Agency will be involved as the member of JCC and as one of members of Working Group (W/G), which was proposed by JICA Study Team and will be established in the Project to discuss for preparation of draft of Basic Coastal Management Plan and Basic Policy of Coastal Management among related agencies.

Further, both sides agreed to revise the position of National Development and Planning Agency (BAPPENAS) member in JCC from “Observers” to “Representative Members of JCC”, and to support the coordination of related agencies in established W/G.

The amendment will become effective as of February 17<sup>th</sup>, 2023

Annex 1: Record of Discussions (signed on March 31<sup>st</sup> 2022)

Annex 2: Letter from JICA Study Team to Director for River and Coastal Directorate General of Water Resources on 3<sup>rd</sup> November 2022

Annex 3: Definition of Area Division on Coastal Management Plan and Coastal Facilities Plan

RECORD OF DISCUSSIONS  
ON  
PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN STUDY ON  
THE NORTH COAST OF JAVA ISLAND  
IN  
THE REPUBLIC OF INDONESIA  
AGREED UPON BETWEEN  
MINISTRY OF PUBLIC WORKS AND HOUSING  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY

Jakarta, ~~January~~ 2022  
31 March

  
Mr. OGAWA Shigenori  
Chief Representative  
JICA Indonesia Office

  
Mr. Jarot Widyoko  
Director General  
Directorate General of Water Resources  
Ministry of Public Works and Housing  
(PUPR)  
Indonesia 

Based on the minutes of meetings on the Basic Planning Survey for “the Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island” (hereinafter referred to as “the Project”) signed on 10th January 2022 between Ministry of Public Works and Housing (hereinafter referred to as “PUPR”) and the Japan International Cooperation Agency (hereinafter referred to as “JICA”), JICA held a series of discussions with the PUPR and relevant organizations to develop a detailed plan of the Project.

Both parties agreed the details of the Project and the main points discussed as described in the Appendix 1 and the Appendix 2 respectively.


Both parties also agreed that PUPR, the counterpart to JICA, will be responsible for the implementation of the Project in cooperation with JICA, coordinate with other relevant organizations and ensure that the self-reliant operation of the Project is sustained during and after the implementation period in order to contribute toward social and economic development of the Republic of Indonesia.

The Project will be implemented within the framework of the Colombo Plan Technical Cooperation Scheme between the Government of Japan and the Government of Indonesia (hereinafter referred to as “GOI”)

Appendix 1: Project Description

Appendix 2: Main Points Discussed

Appendix 3: Minutes of Meetings on the Basic Planning Survey

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## PROJECT DESCRIPTION

### **I. BACKGROUND**

The North Coast of Java Island is known through the Pantura Line (North Coast) which is a national road along 1,316 km between Merak to Ketapang, Banyuwangi along the north coast of Java Island, especially between Jakarta and Surabaya.

The Pantura line crosses 5 provinces: Banten, DKI Jakarta, West Java, Central Java, and East Java. The westernmost tip in the Merak Harbor, which links it to the Bakauheni Port on the island of Sumatra, the southernmost end of the Trans Sumatra Road. The easternmost tip is the Ketapang Port which connects it to the Gilimanuk Port on the island of Bali. Pantura line is a road that connects the western part of Java Island and its eastern part.

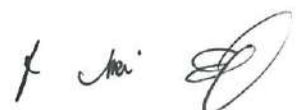
At present the condition of the marine and coastal environment is increasingly worrisome. Almost along the North Coast of Java, coral ecosystems and mangrove/mangrove trees or other coastal plants that can function as a tidal wave repellent are already extinct. Every time the sea season is high tide, waves and waves crashing on people's homes and highways because there are no more coastal plants that can withstand the tidal wave rate.

Cities on the north coast of Java as Jakarta, Semarang, Pekalongan, and Surabaya are vulnerable to environmental pressures such as sea level change and land subsidence. Land subsidence can be caused by natural and anthropogenic processes. Geologically, the north coastal plain of Java consists of unconsolidated Holocene alluvial deposit. The recent alluvial deposit is prone to compaction, and further aggravated by anthropogenic forces such as groundwater extraction and land development. Understanding the complex interaction of natural and manmade factors is essential to establish mitigation realize that land subsidence is taking place.

To solve the problems in the north coast of Java, formulating Master Plan of the seacoast management is needed. Which then will be the basis for the implementation of the projects.

### **II. OUTLINE OF PROJECT**

1. Title of the Project  
The Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island
2. Expected Goals which will be attained after implementing the Proposed Plan  
Selected coastal area of the North Coast of Java Island is properly managed based on the draft Basic Policy for Coastal Management and the draft Basic Coastal Management Plans (Master Plans) considering harmonization of coastal protection, environment, utilization and development.
3. Outputs
  - (a). Draft Basic Policy for Coastal Management (Tentative name)
  - (b). Draft Basic Coastal Management Plan (Tentative Name) in the Two Northern Coastal Areas of Java Island
  - (c). Coastal Facilities Plan (Tentative Name) in the Two Northern Coastal Areas of



Java Island

(d). Technology transfer to the relevant GOI staff through the project

4. Activities

- (a). Basic survey
- (b). Draft Basic Policy for Coastal Management (Tentative name)
- (c). Draft Basic Coastal Management Plan (Tentative Name)
- (d). Coastal Facilities Plan
- (e). Technical Transfer and Capacity Building

5. Input

1). Input by JICA

(a). Dispatch of mission

(Title is tentative and subject to change)

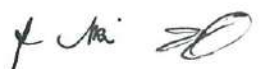
- Team Leader: Coastal Management
- Coastal Conservation Management
- Seacoast / Sediment Management
- Hydraulic Analysis
- Facility Design / Construction Planning
- Institutional, Financial Analysis
- Hydrogeologist, Groundwater Analysis, Land subsidence
- Environmental and Social Consideration

Input other than indicated above will be determined through mutual consultations between JICA and PUPR during the implementation of the Project, as necessary.

2). Input by PUPR

PUPR will take necessary measures to provide at its own expense:

- (a) Services of PUPR's counterpart personnel and administrative personnel as referred to in II-6;
- (b) Suitable office space with necessary equipment;
- (c) Supply or replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the equipment provided by JICA;
- (d) Means of transport and travel allowances for C/P joining for official travel within Indonesia;
- (e) Information as well as support in acquiring suitable furnished accommodation for members of the JICA missions and their families;
- (f) Information as well as support in obtaining medical service;
- (g) Credentials or identification cards;
- (h) Available data (including maps and photographs) and information related to the Project;
- (i) Running expenses necessary for the implementation of the Project;
- (j) Expenses necessary for transportation within Indonesia of the equipment referred to in II-5 (1) as well as for the installation, operation and maintenance thereof, if needed; and
- (k) Necessary facilities to the members of the JICA missions for the remittance as well as utilization of the funds introduced into Indonesia from Japan in



connection with the implementation of the Project, if needed.

## 6. Implementation Structure

The project implementation structure is given in the Annex 1. The roles and assignments of relevant organizations are as follows:

### (1) Project Director

Director General of Water Resources will bear overall responsibility for implementation, administration, monitoring and evaluation of the Project as Project Director.

### (2) Project Manager

Director of River and Coastal will bear overall responsibility for managerial matter of the Project as Project Manager.

### (3) C/P Personnel

C/P personnel are expected to work closely with the JICA Experts.

(a). Staff of Directorate of River and Coastal

(b). Staff of Directorate of Technical Development for Water Resources

(c). Staff of River Basin Headquarter (BBWS)/ River Basin Office (BWS) of pilot sites

(d). Staff of Directorate of System & Strategy of Water Resources Management

(e). Staff of Technical Centre for Coastal

### (4) The members of JICA missions

The members of JICA missions will give necessary technical guidance, advice and recommendations to PUPR on any matters pertaining to the implementation of the Project.

### (5) Joint Coordinating Committee

Joint Coordinating Committee (hereinafter referred to as "JCC") will be established in order to facilitate inter-organizational coordination. JCC will be held whenever deems it necessary. A list of proposed members of JCC is shown in the Annex 2.

## 7. Project Site(s) and Beneficiaries

Both sides agreed that the target area of the Project is tentatively defined as follows.

### 1). Target area for basic survey

The target areas will cover whole of the north of Java Island.

### 2). Target area for developing basic coastal management plan, and coastal facilities plan

Two project sites will be selected from those areas where PUPR can carry out the direct control with criteria, which are tentatively agreed between both sides as below;

- Representativeness

(a). Various typical measures are included in the target areas

(b). Typical problems cases occurring in Indonesia are included in the target areas

- Priority by the PUPR and local governments (priority as a coastal problem)

- Priority on coastal utilization / land use

- Potential adverse impacts on the environment and society

### 3). Draft basic policy for coastal management will be developed to be applied to whole Indonesian coastal area, however it will be developed with the

information of basic survey only in the Project. Therefore, additional survey of whole Indonesian coastal area might be needed for finalization of the policy after the Project.

Direct beneficiaries are PUPR and indirect beneficiaries are Indonesian citizens.

#### 8. Duration

The duration of the Project is two (2) years. The Project will start after a first expert arrival in Indonesia. In case of the impact of COVID-19 is still remaining, the both sides will make discussion once again about the timing of commencement of the Project.

#### 9. Reports

JICA will prepare and submit the following reports to the PUPR in Indonesia.

- (1) 6 copies of Inception Report at the commencement of the first work period in Indonesia
- (2) 6 copies of Interim Report at the time about 6 months after the commencement of the first work period in Indonesia
- (3) 6 copies of Progress Report at the time of 12 months after the commencement of the first work period in Indonesia
- (4) 6 copies of Draft Final Report at the end of the last work period in Indonesia
- (5) 6 copies of Final Report within one (1) month after the receipt of the comments on the Draft Final Report

#### 10. Environmental and Social Considerations

- (1) PUPR will abide by 'JICA Guidelines for Environmental and Social Considerations' (April 2010) in order to ensure that appropriate considerations will be made for the environmental and social impacts of the Project.

### **III. UNDERTAKINGS OF PUPR**

#### 1. PUPR will take necessary measures to:

- (1) ensure that the technologies and knowledge acquired by the Indonesia nationals as a result of Japanese technical cooperation contributes to the economic and social development of Indonesia, and that the knowledge and experience acquired by the personnel of Indonesia from technical training as well as the equipment provided by JICA will be utilized effectively in the implementation of the Project; and
- (2) grant privileges, exemptions and benefits to members of the JICA missions referred to in II-4 above and their families, which are no less favorable than those granted to experts and members of the missions and their families of third countries or international organizations performing similar missions in Indonesia.

#### 2. PUPR will take necessary measures to:

- (1) provide security-related information as well as measures to ensure the safety of members of the JICA missions;
- (2) permit members of the JICA missions to enter, leave and sojourn in Indonesia for the duration of their assignments therein and exempt them from foreign

- registration requirements and consular fees.
- (3) exempt members of the JICA missions from taxes and any other charges on the equipment, machinery and other material limited for the implementation of the Project;
  - (4) exempt members of the JICA missions from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to them and/or remitted to them from abroad for their services in connection with the implementation of the Project; and
3. PUPR will bear claims, if any arises, against members of the JICA missions resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Project, except when such claims arise from gross negligence or willful misconduct on the part of members of the JICA missions.

#### **IV. MONITORING AND EVALUATION**

JICA will conduct the following evaluations and surveys to verify how the proposed plan is utilized and draw lessons. The PUPR is required to provide necessary support for them.

Ex-post evaluation: three (3) years after the project completion, in principle  
Follow-up surveys on necessity basis

#### **V. PROMOTION OF PUBLIC SUPPORT**

For the purpose of promoting support for the Project, PUPR will take appropriate measures to make the Project widely known to the people of Indonesia.

#### **VI. MISCONDUCT**

If JICA receives information related to suspected corrupt or fraudulent practices in the implementation of the Project, PUPR and relevant organizations will provide JICA with such information as JICA may reasonably request, including information related to any concerned official of the government and/or public organizations of the Indonesia.

PUPR and relevant organizations will not, unfairly or unfavorably treat the person and/or company which provided the information related to suspected corrupt or fraudulent practices in the implementation of the Project.

#### **VII. MUTUAL CONSULTATION**

JICA and PUPR will consult each other whenever any major issues arise in the course of Project implementation.

#### **VIII. AMENDMENTS**

The record of discussions may be amended by the minutes of meetings between JICA and PUPR. However, PO may be amended in the Monitoring Sheets.


The minutes of meetings will be signed by authorized persons of each side who may be different from the signers of the record of discussions.

Annex 1 Project Organization Chart

Annex 2 A List of Proposed Members of Joint Coordinating Committee

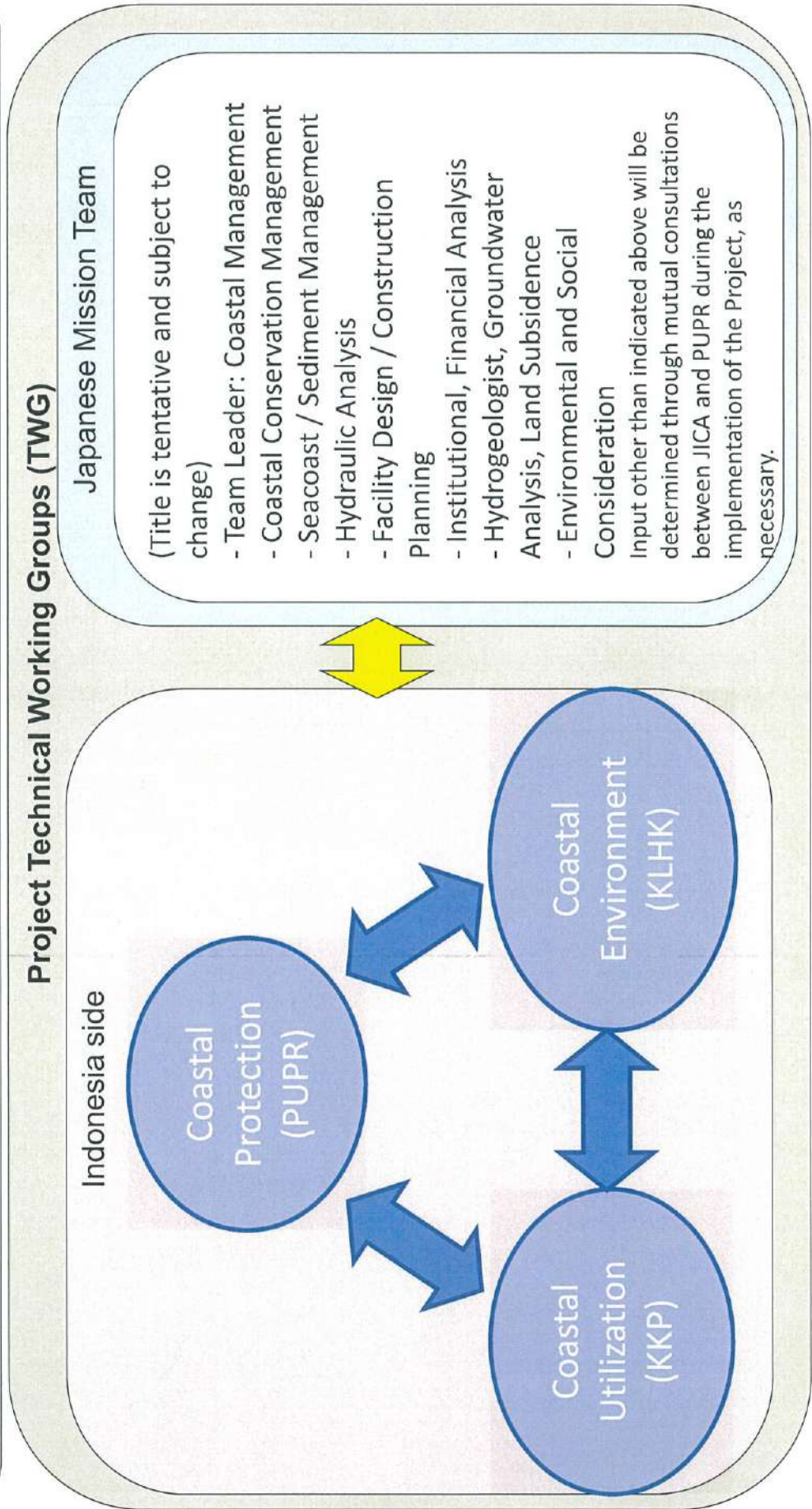
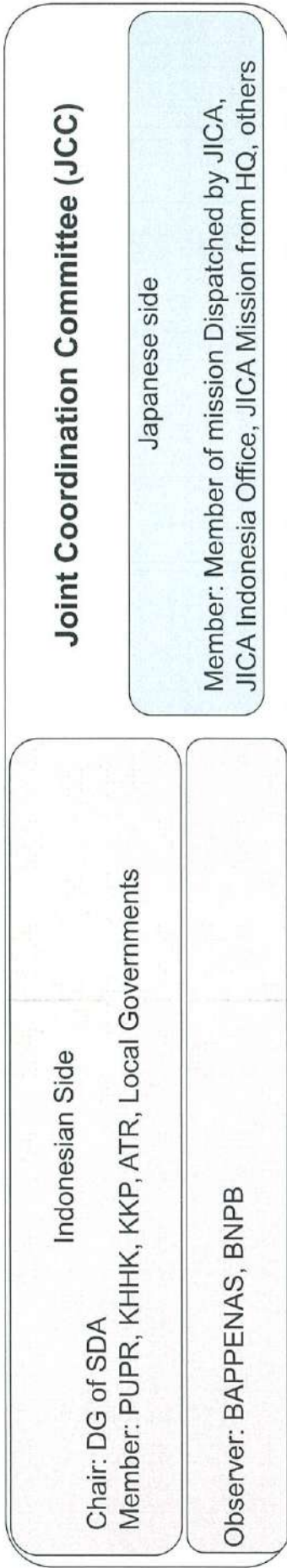


Annex 3 Terms of Reference for the Environmental and Social Considerations

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# Project Organization Chart

Annex 1



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**A List of Proposed Members of Joint Coordinating Committee for the Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island**

PUPR will hold Joint Coordinating Committee (Hereinafter referred to as “JCC”) at least once a year and wherever deems it necessary

The function of the JCC are as follows:

- To submit authorized organization to approve an annual work plan;
- To review the progress of the Project;
- To conduct evaluation of the Project;
- To exchange views and ideas on major challenges which will arise during the implementation period of the Project; and
- Any other related issues.

Composition of JCC is as follows

a) Chairperson:

- a) Director of General of Water Resources Members on Indonesia side:
- Representatives of Directorate of River and Coastal
  - Representatives of Directorate of Technical Development for Water Resources
  - Representatives of BBWS/BWS of pilot sites
  - Representatives of Directorate of System & Strategy of Water Resources Management
  - Representatives of Technical Centre for Coastal
  - Representatives of Technical Centre for River
  - Representatives of Local Governments in the selected pilot sites
  - Representatives of Ministry of Marine and Fisheries (KKP)
  - Representatives of Ministry of Environment and Forestry (KLHK)
  - Representatives of Ministry of Agrarian Affairs and Spatial Planning (ATR)

Observers

- Representatives of National Development and Planning Agency (BAPPENAS)
- Representatives of National Disaster Management Authority (BNPB)

b) Members on Japanese side:

- Chief Representative of JICA Indonesia Office
- Member of Mission Dispatched by JICA
- Other person(s) concerned appointed by JICA



**Terms of Reference for the Environmental and Social Considerations**

A Strategic Environmental Assessment (SEA) shall be conducted during the Project in accordance with JICA Guidelines for Environmental and Social Considerations in addition to the regulations in Indonesia. Terms of Reference for the SEA include, but not limited to, the followings:

Discuss whether the basic planning for the coastal protection by the Project needs SEA in conformity with the regulations in Indonesia such as Government Regulation No.46/2016 and Regulation of the Minister of Environment and Forestry No.P.69/MENLHK/SETJEN/KUM.1/12/2017. Gaps between the JICA Guidelines and the legal framework of Indonesia on environmental and social considerations and how they will be filled in the Project. If it is needed, the SEA shall follow the processes and contents required by those regulations in addition to the followings;

1. Establishing SEA team with PUPR, relevant organizations, and JICA study team;
2. Review of existing development policies, plans, projects, studies, and public/private investment at/around the project sites;
3. Analysis to identify environmental and social constrains to the coastal protection;
4. Identify the basic planning to achieve the objectives and goals as the subject of SEA with alternatives proposed considering strategic scenarios, concepts and prioritization;
5. Baseline survey of the existing environmental and social conditions (land use, natural environment, living area of indigenous people, economic and social condition, etc.);
6. Scoping (identify environmental and social issues to be evaluated and the methods with indicators and criteria for evaluation);
7. Analysis of possible impacts based on the scoping;
8. Comparative analysis of possible impacts of alternatives including 'without project' option and 'zero' option;
9. Preparing recommendations for reflecting to the basic planning which includes mitigation measures to avoid, minimized and compensate the impacts and/or monitoring methods (monitoring items, frequencies and methods) for the selected plan;
10. Provisional scoping for Basic Coastal Management Plan and the Coastal Facilities Plan prioritized in the basic planning;
11. Support to have stakeholder meetings by identifying the purpose of the meetings, participants, consultation methodologies and agenda, etc. to be held at least two occasions, 1) at the time of scoping and 2) at the time of preparation of a draft SEA report;
12. Preparing and finalizing a SEA report.

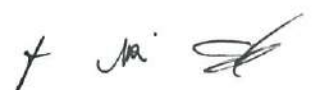
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**MAIN POINTS DISCUSSED**

1. BAST (handover delivery certificate of goods/services)
  - (1) Both parties confirmed that the Project is categorized as “Goods / Services” as stipulated in Article 42 (1) c of the Government Regulation No. 10/2011.
  - (2) In accordance with the Regulation of the Minister of Finance No. 99/ PMK.05 /2017, PUPR shall submit BAST (handover delivery certificate of goods/services) to the Ministry of Finance. In order to secure the accuracy of BAST, JICA Indonesia Office will provide PUPR with data on semester basis as follows:
    - Goods: name and price (in effective currency and Indonesian currency) per item of equipment handed over during last six months
    - Services: total expenditure (in Japanese currency and Indonesian currency) of last six months for experts, trainings, and missions
  - (3) PUPR will make and sign BAST based on the data provided by JICA, and after obtaining JICA's confirmation, submit it to the Ministry of Finance.
  - (4) The other points discussed between PUPR and JICA are referred to Appendix 3 Minutes of Meetings on Basic Planning Survey

END



**MINUTES OF MEETING  
BETWEEN  
JAPAN INTERNATIONAL COOPERATION AGENCY  
AND  
MINISTRY OF PUBLIC WORKS AND HOUSING  
ON JAPANESE TECHNICAL COOPERATION  
FOR  
PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN STUDY ON THE  
NORTH COAST OF JAVA ISLAND**

In response to the request of the Government of Republic of Indonesia (hereinafter referred to as “GoI”), the Basic Planning Survey Team (hereinafter referred to as “the Team”) of the Japan International Cooperation Agency (hereinafter referred to as “JICA”), headed by Mr. MATSUMOTO Hideaki, had series of discussion with Indonesia through remote basis from 24<sup>th</sup> of August 2021 to 22<sup>nd</sup> of December 2021, for the purpose of formulating “the Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island” (hereinafter referred to as “the Project”).

During its series of discussion, the Team exchanged its views for the purpose of working out the framework and details of the Project with the officials of Ministry of Public Works and Housing (hereinafter referred to as “PUPR”) and other organizations concerned.

As a result of the discussions, both sides agreed on the matters referred to in the document attached hereto.

10<sup>th</sup> January 2022

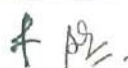
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Mr. MATSUMOTO Hideaki  
Team Leader  
Basic Planning Survey Team  
Japan International Cooperation Agency  
Japan

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Mr. Jarot Widyoko   
Director General  
Directorate General of Water Resources  
Ministry of Public Works and Housing (PUPR)  
Indonesia



## ATTACHED DOCUMENT

### 1. Title of the Project

The title of the Project was requested as “the Project for Coastal Management Master Plan Study on the North Coast of Java Island”.

Considering the content of the Project and PUPR jurisdiction, both sides agreed to change title of the Project as “the Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island”.

### 2. Record of Discussions

The Both sides agreed on the draft Record of Discussions (hereinafter referred to as “R/D”), shown in Attachment 1 which stipulates the framework of the Project, which shall be finalized and signed by the representative of JICA Indonesia Office and PUPR after notification of approval from implementation of the Project by JICA Headquarters.

### 3. Framework of the Project

#### 3.1. Project implementing agency

(1) Implementing agency:

Directorate General of Water Resources (hereafter referred to as “DGWR”), Ministry of Public Works and Housing (PUPR) will bear overall responsibility for the Project

(2) Relevant sections of PUPR in the Project:

- i. Directorate General of Water Resources (DGWR)
  - a) Directorate of River and Coastal (Dir S&P)
  - b) Directorate of Technical Development for Water Resources
  - c) Directorate of System & Strategy of Water Resources Management
  - d) Technical Centre for Coastal
  - e) Technical Centre for River
  - f) River Basin Headquarter (BBWS)/ River Basin Office (BWS) in pilot sites

#### 3.2. Target areas

Both sides agreed that the target area of the Project is tentatively defined as follows.

1) Target area for basic survey

The target areas will cover whole of the north of Java Island.

2) Target area for developing basic coastal management plan, and coastal facilities plan

Two project sites will be selected from those areas where PUPR can carry out the direct control with criteria, which are tentatively agreed between both sides as below;

(1) Representativeness

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- a) Various typical measures are included in the target areas
- b) Typical problems cases occurring in Indonesia are included in the target areas
- (2) Priority by the PUPR and local governments (priority as a coastal problem)
- (3) Priority on coastal utilization / land use
- 3) Draft basic policy for coastal management will be developed to be applied to whole Indonesian coastal area, however it will be developed with the information of basic survey only in the Project. Therefore, additional survey of whole Indonesian coastal area might be needed for finalization of the policy after the Project.

### 3.3. Duration of the Project

The duration of the Project is two (2) years. The Project will start after a first expert arrival in Indonesia. In case of the impact of COVID-19 is still remaining, the both sides will make discussion once again about the timing of commencement of the Project.

## 4. Administration of the Project

### 4.1. Input by JICA

a) Dispatch of mission

(Title is tentative and subject to change)

- Team Leader: Coastal Management
- Coastal Conservation Management
- Seacoast / Sediment Management
- Hydraulic Analysis
- Facility Design / Construction Planning
- Institutional, Financial Analysis
- Hydrogeologist, Groundwater Analysis, Land Subsidence

Input other than indicated above will be determined through mutual consultations between JICA and PUPR during the implementation of the Project, as necessary.

### 4.2. Project implementation structure of the Indonesia side

(1) Project Director

Director General of Water Resources will bear overall responsibility for implementation, administration, monitoring and evaluation of the Project as Project Director.

(2) Project Manager

Director of River and Coastal will bear overall responsibility for managerial matter of the Project as Project Manager.

(3) C/P Personnel

C/P personnel are expected to work closely with the JICA Experts.

- a) Staff of Directorate of River and Coastal
- b) Staff of Directorate of Technical Development of Water Resources
- c) Staff of BBWS/BWS of pilot site(s)

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- d) Staff of Directorate of System & Strategy of Water Resources Management
- e) Staff of Technical Centre for Coastal

(4) Joint Coordinating Committee among responsible agency, related organizations, technical supporting organizations

PUPR will hold Joint Coordinating Committee (Hereinafter referred to as "JCC") wherever deems it necessary

The function of the JCC are as follows:

- To submit authorized organization to approve an annual work plan;
- To review the progress of the Project;
- To conduct evaluation of the Project;
- To exchange views and ideas on major challenges which will arise during the implementation period of the Project; and
- Any other related issues.

Composition of JCC is as follows

a) Chairperson:

Director General of Water Resources

b) Members on Indonesia side:

- Representatives of Directorate of River and Coastal
- Representatives of Directorate of Technical Development of Water Resources
- Representatives of BBWS/BWS of pilot site(s)
- Representatives of Directorate of System & Strategy of Water Resources Management
- Representatives of Technical Centre for Coastal
- Representatives of Technical Centre for River
- Representatives of Local Governments in pilot site(s)
- Representatives of Ministry of Marine and Fisheries (KKP)
- Representatives of Ministry of Environment and Forestry (KLHK)
- Representatives of Ministry of Agrarian Affairs and Spatial Planning (ATR)

Observer

- Representatives of National Development and Planning Agency (BAPPENAS)
- Representatives of National Disaster Management Authority (BNPb)

c) Members on Japanese side:

- Chief Representative of JICA Indonesia Office
- Member of Mission Dispatched by JICA
- Other person(s) concerned appointed by JICA

#### 4.3. Measures to be undertaken by the Indonesia side

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Indonesia side has responsibility to undertake the items of “II. OUTLINE OF THE PROJECT 5. (2) Input by PUPR” as well as “III. UNDERTAKINGS OF PUPR” described in draft Record of Discussion (R/D)

## **5. Verification and Agreement of basic policy for cooperation framework**

### **5.1 Confirmation of the background of application**

PUPR aims to make overall plan for the whole coastal area, and make it a guiding document in planning coastal risk reduction or coastal protection against floods and erosion which PUPR is in charge of.

### **5.2 Basic Stance with the existing plans**

Both parties agreed that the plan to be developed for this project should be consistent with the existing plan, but the basic stance is as follows;

- (1) After reviewing existing plans and initiatives, consider the suitable plan from the perspectives of coastal utilization, environment, and protection.
- (2) Any plans or initiatives later than this plan will seek to ensure consistency with this plan and its policies.
- (3) If an existing plan has a significant negative impact on coastal conservation and coastal management in the context of proposing plan, which cannot be resolved without changes to the existing plan, consultation and coordination with the competent authorities, including changing the existing plan will be taken place.

### **5.3 Structure or layer of the output of the Project**

In Indonesia at present, projects such as coastal utilization, protection and environmental conservation are being carried out by the respective ministries and agencies in charge, but there is no overall plan or policy to harmonize them. Thus, both parties agreed to make the following policy and plans in the Project.

- (1) Draft Basic Policy for Coastal Management (Tentative name): This is the overall policy of the government regarding coastal management, which guides the harmonious implementation of coastal development, utilization, protection and environmental conservation, and it stipulates the formulation of the Basic Plan for Coastal Management as described below.
- (2) Draft Basic Coastal Management Plan (Tentative Name): An overall plan that includes coastal development, utilization, protection and environmental conservation. This is referred to as a master plan.
- (3) Coastal Facilities Plan (Tentative Name): A project plan for the development of coastal protection facilities to be implemented by PUPR based on the Basic Coastal Management Plan (Master Plan).

\* The purpose to propose draft policy and plan in the Project is to promote the understanding of (i) the relationship between basic policy, basic plan and the facility plan, and (ii) the necessity

and usefulness of this basic plan together with the basic policy, by presenting the basic policy and the basic plan in concrete form as a draft.

#### **5.4 Details of each policy and plan**

Both parties agreed with a detailed explanation of 5.2 above;

##### **(1) Basic Policy for Coastal Management**

At least three relevant ministries (PUPR, the Ministry of Environment and Forestry, and the Ministry of Marine Affairs and Fisheries) need to discuss in order to formulate this basic policy. In addition, local governments and KKP are significant organizations as they are responsible for Zoning Plan for Coastal Zone and Small Islands (Rencana Zonasi Wilayah Pesisir Dan Pulau-Pulau Kecil (RZWP-3-K). Contents of the policy can be (i) basic guidelines (issues and background, philosophy, elements of coastal management (protection, environment, utilization), basic matters of each element), (ii) classification, (iii) basic matters of the basic coastal management plan (matters to be determined, matters to be noted), provides for the formulation of the basic coastal management plan. In the Project, a draft policy will be proposed, which need further study and discussions by three relevant ministries and may need to be formalized by government regulations.

##### **(2) Basic Coastal Management Plan**

Study and discussion by at least three relevant ministries and agencies are necessary.

Local academics and researchers, heads of local governments, and organizations concerned with coastal utilization and protection might be involved for formulation.

The content is set out in the basic policy and it can be the following matters and other points to note. (i) Basic matters concerning the coastal management (the current status of the coast and the policy of conservation, protection of the coast (area, level and goal of protection, the content of the policy), maintenance and conservation of the coastal environment, appropriate use of the public, (ii) Basic matters concerning the maintenance of coastal protection facilities (regarding the maintenance and repair of facilities: area of facilities, type, size and layout of facilities, beneficiary areas) and conditions, protected areas and land use conditions, etc.).

In the Project, a draft plan will be proposed, which need further study and discussions by three relevant ministries and might need formalization of basic policy clarify the position of the basic plan.

##### **(3) Coastal Facilities Plan**

This is a project plan for coastal protection facilities under the jurisdiction of the PUPR, and a pre-Feasibility Study will be conducted. The observation of tides and waves required for Feasibility Study will be conducted within the Project.

#### **5.5 Targeted events and hazards**

Both parties agreed with targeted events and hazards as follows;

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(1) The events and hazards to be dealt with in the Project are all those that cause damage to or affect the coast and structures located. The draft basic plan and the draft facilities plan will be prepared in consideration of the following phenomena: (i) events such as coastal erosion, coastal flooding, sedimentation, and structural damage; (ii) hazards such as high ocean waves, storm surges and tsunamis; (iii) natural phenomena such as tides, ocean waves, currents and drifting sand from coastal areas and rivers; (iv) anthropogenic phenomena such as the effects of structure construction, development activities in rivers and upstream areas and land subsidence.

(2) With regard to land subsidence, the plan should consider the prediction of future land subsidence and its impact, but the land subsidence countermeasures such as regulating groundwater pumping should be excluded from the plan.

## **5.6 Target Level**

The target protection level (probability scale for example 50 years return period high wave etc.) is not officially set yet in Indonesia, therefore, it shall be studied in the Project. Idea of the target protection level is to set a government's target to protect areas with structural measures by the government's responsibility.

## **5.7 Technology transfer**

Indonesian side requested technology transfer from the Japanese side through the Project. The Team explained that the type of the project is to conduct a study targeting making plan, and some technology transfer will be done through discussing the policy and the plans in the Project. In addition, project will conduct and create the followings;

- (1) Implementation of workshops and seminars on coastal structure and coastal management
- (2) Procedure of the Basic Coastal Management Plan
- (3) Case studies on basic measures for coastal protection, utilization and environmental conservation
- (4) Training in Japan or the third countries

## **6. Other Matters**

### **6.1. Two Steps Planning Method for Technical Cooperation Project**

Two Steps Planning Method is a planning method in which the Project immediately starts once a basic plan is formulated (STEP 1) and a detailed plan is formulated (STEP 2) to start core activities after the Project has begun.

Both parties agree that the Detailed Planning Survey will be conducted in the first year of the Project. The purpose of the Detailed Planning Survey is to collect and analyze additional information concerning the Project and to agree on the details of the Project by the end of the first year of the Project.

### **6.2 Formulation of Technical Working Group (hereinafter referred to as "TWG")**

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The Team explained that coordination and collaboration with related organization is key of effective project activities. Therefore, JICA proposed to formulate TWG to accelerate technology-focused activities.

Both sides agreed tentative TWG in accordance with Project output and activities shown in Annex 1 of the draft R/D. The Indonesia side agreed to nomination of each member for TWG will be made before the commencement of the Project.

### **6.3. Overall Schedule before commencement of the Project as an earliest scenario**

August – September, 2021: Basic Planning Survey

October, 2021: Approval of Draft R/D in JICA HQ

November, 2021: Approval of R/D in Indonesia side and signing R/D between both sides

October, 2021 to March, 2022: Preparation of the Project

March – April, 2022: Starting the Project

### **6.4. Contribution to DRR investment and the Sendai Framework for Disaster Risk Reduction 2015-2030**

The Third UN World Conference on Disaster Risk Reduction was held in Sendai in March 2015 Japan and the Sendai Framework for Disaster Risk Reduction 2015-2030 (hereinafter referred to as “SFDRR 2015-2030”) was adopted, which is latest worldwide principle for DRR.



The Team explained JICA would like to support the Indonesia side's efforts toward DRR investment through the implementation of the Project and the concept of the Project have to be in line with priorities for priority action in SFDRR 2015-2030, particularly, the Project contributes to implement “Priority Action 3: Investing in disaster risk reduction for resilience” through acceleration of formulation and implementation of coastal management M/P. The Indonesia side also agreed above main purpose of the Project.

### **6.5. Climate Change Consideration**

In Indonesia, the adverse impacts of climate change induced by global warming have been notable as evidenced by natural hazards and extreme events more frequently and with increased intensity. To adapt to the impacts of climate change, it is absolutely necessary to consider increasing sea level rise, tidal wave, tidal current, high wave, storm surge caused by climate change, etc. Therefore, the Project is expected to contribute to climate change adaptation and both sides agreed that the Project will contribute to the adaptation to climate change.

Hence, it is indispensable to integrate Climate Change considerations into coastal management M/P. As for policy of climate change projection in Indonesia, BAPPENAS will bear responsibility to coordinate relevant organizations for comprehensive Climate Change policies and BMKG will bear responsibility to monitoring and predicting the climate changes in Indonesia. On the other hand, PUPR as a formulation/implementation agency for coastal protection measures will bear responsibility to integrate Climate Change assessment policy into their plan. PUPR will coordinate among relevant organizations mentioned above under the

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Project activities to determine the details of Climate Change considerations such as scenario, model and etc.

#### **6.6. Environment and Social Considerations**

Since the Project is categorized as B under the “JICA Guidelines for Environmental and Social Considerations (April 2010)” (hereinafter referred to as “the Guidelines”), the necessary procedures are taken in accordance with the Guidelines. PUPR agreed to follow the Guidelines in order to ensure that appropriate consideration shall be made for the possible environmental and social impacts of the Project. At the same time, PUPR understood that the project category may be changed, after the on-site confirmation in the Project. Terms of reference for the Environmental and Social Considerations in attached in draft R/D.

(End of document)

Attachment 1: Draft Record of Discussions (R/D)

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Mr. T

**DRAFT  
RECORD OF DISCUSSIONS  
ON  
PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN STUDY ON  
THE NORTH COAST OF JAVA ISLAND  
IN  
THE REPUBLIC OF INDONESIA  
AGREED UPON BETWEEN  
MINISTRY OF PUBLIC WORKS AND HOUSING  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY**

Jakarta, XX XX 2022

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Mr. OGAWA Shigenori  
Chief Representative  
JICA Indonesia Office

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Mr. Jarot Widyoko  
Director General  
Directorate General of Water Resources  
Ministry of Public Works and Housing  
(PUPR)  
Indonesia

Based on the minutes of meetings on the Basic Planning Survey for “the Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island” (hereinafter referred to as “the Project”) signed on XX 2022 between Ministry of Public Works and Housing (hereinafter referred to as “PUPR”) and the Japan International Cooperation Agency (hereinafter referred to as “JICA”), JICA held a series of discussions with the PUPR and relevant organizations to develop a detailed plan of the Project.

Both parties agreed the details of the Project and the main points discussed as described in the Appendix 1 and the Appendix 2 respectively.

Both parties also agreed that PUPR, the counterpart to JICA, will be responsible for the implementation of the Project in cooperation with JICA, coordinate with other relevant organizations and ensure that the self-reliant operation of the Project is sustained during and after the implementation period in order to contribute toward social and economic development of the Republic of Indonesia.

The Project will be implemented within the framework of the Colombo Plan Technical Cooperation Scheme between the Government of Japan and the Government of Indonesia (hereinafter referred to as “GOI”)

Appendix 1: Project Description

Appendix 2: Main Points Discussed

Appendix 3: Minutes of Meetings on the Basic Planning Survey

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## PROJECT DESCRIPTION

### I. BACKGROUND

The North Coast of Java Island is known through the Pantura Line (North Coast) which is a national road along 1,316 km between Merak to Ketapang, Banyuwangi along the north coast of Java Island, especially between Jakarta and Surabaya.

The Pantura line crosses 5 provinces: Banten, DKI Jakarta, West Java, Central Java, and East Java. The westernmost tip in the Merak Harbor, which links it to the Bakauheni Port on the island of Sumatra, the southernmost end of the Trans Sumatra Road. The easternmost tip is the Ketapang Port which connects it to the Gilimanuk Port on the island of Bali. Pantura line is a road that connects the western part of Java Island and its eastern part.

At present the condition of the marine and coastal environment is increasingly worrisome. Almost along the North Coast of Java, coral ecosystems and mangrove/mangrove trees or other coastal plants that can function as a tidal wave repellent are already extinct. Every time the sea season is high tide, waves and waves crashing on people's homes and highways because there are no more coastal plants that can withstand the tidal wave rate.

Cities on the north coast of Java as Jakarta, Semarang, Pekalongan, and Surabaya are vulnerable to environmental pressures such as sea level change and land subsidence. Land subsidence can be caused by natural and anthropogenic processes. Geologically, the north coastal plain of Java consists of unconsolidated Holocene alluvial deposit. The recent alluvial deposit is prone to compaction, and further aggravated by anthropogenic forces such as groundwater extraction and land development. Understanding the complex interaction of natural and manmade factors is essential to establish mitigation realize that land subsidence is taking place.

To solve the problems in the north coast of Java, formulating Master Plan of the seacoast management is needed. Which then will be the basis for the implementation of the projects.

### II. OUTLINE OF PROJECT

1. Title of the Project  
The Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island
2. Expected Goals which will be attained after implementing the Proposed Plan  
Selected coastal area of the North Coast of Java Island is properly managed based on the draft Basic Policy for Coastal Management and the draft Basic Coastal Management Plans (Master Plans) considering harmonization of coastal protection, environment, utilization and development.
3. Outputs
  - (a). Draft Basic Policy for Coastal Management (Tentative name)
  - (b). Draft Basic Coastal Management Plan (Tentative Name) in the Two Northern Coastal Areas of Java Island
  - (c). Coastal Facilities Plan (Tentative Name) in the Two Northern Coastal Areas of

Java Island

(d). Technology transfer to the relevant GOI staff through the project

4. Activities

- (a). Basic survey
- (b). Draft Basic Policy for Coastal Management (Tentative name)
- (c). Draft Basic Coastal Management Plan (Tentative Name)
- (d). Coastal Facilities Plan
- (e). Technical Transfer and Capacity Building

5. Input

1). Input by JICA

(a). Dispatch of mission

(Title is tentative and subject to change)

- Team Leader: Coastal Management
- Coastal Conservation Management
- Seacoast / Sediment Management
- Hydraulic Analysis
- Facility Design / Construction Planning
- Institutional, Financial Analysis
- Hydrogeologist, Groundwater Analysis, Land subsidence

Input other than indicated above will be determined through mutual consultations between JICA and PUPR during the implementation of the Project, as necessary.

2). Input by PUPR

PUPR will take necessary measures to provide at its own expense:

- (a) Services of PUPR's counterpart personnel and administrative personnel as referred to in II-6;
- (b) Suitable office space with necessary equipment;
- (c) Supply or replacement of machinery, equipment, instruments, vehicles, tools, spare parts and any other materials necessary for the implementation of the Project other than the equipment provided by JICA;
- (d) Means of transport and travel allowances for C/P joining for official travel within Indonesia;
- (e) Information as well as support in acquiring suitable furnished accommodation for members of the JICA missions and their families;
- (f) Information as well as support in obtaining medical service;
- (g) Credentials or identification cards;
- (h) Available data (including maps and photographs) and information related to the Project;
- (i) Running expenses necessary for the implementation of the Project;
- (j) Expenses necessary for transportation within Indonesia of the equipment referred to in II-5 (1) as well as for the installation, operation and maintenance thereof, if needed; and
- (k) Necessary facilities to the members of the JICA missions for the remittance as well as utilization of the funds introduced into Indonesia from Japan in connection with the implementation of the Project, if needed.

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## 6. Implementation Structure

The project implementation structure is given in the Annex 1. The roles and assignments of relevant organizations are as follows:

- (1) Project Director  
Director General of Water Resources will bear overall responsibility for implementation, administration, monitoring and evaluation of the Project as Project Director.
- (2) Project Manager  
Director of River and Coastal will bear overall responsibility for managerial matter of the Project as Project Manager.
- (3) C/P Personnel  
C/P personnel are expected to work closely with the JICA Experts.
  - (a). Staff of Directorate of River and Coastal
  - (b). Staff of Directorate of Technical Development for Water Resources
  - (c). Staff of River Basin Headquarter (BBWS)/ River Basin Office (BWS) of pilot sites
  - (d). Staff of Directorate of System & Strategy of Water Resources Management
  - (e). Staff of Technical Centre for Coastal
- (4) The members of JICA missions  
The members of JICA missions will give necessary technical guidance, advice and recommendations to PUPR on any matters pertaining to the implementation of the Project.
- (5) Joint Coordinating Committee  
Joint Coordinating Committee (hereinafter referred to as "JCC") will be established in order to facilitate inter-organizational coordination. JCC will be held whenever deems it necessary. A list of proposed members of JCC is shown in the Annex 2.

## 7. Project Site(s) and Beneficiaries

Both sides agreed that the target area of the Project is tentatively defined as follows.

- 1). Target area for basic survey  
The target areas will cover whole of the north of Java Island.
- 2). Target area for developing basic coastal management plan, and coastal facilities plan  
Two project sites will be selected from those areas where PUPR can carry out the direct control with criteria, which are tentatively agreed between both sides as below;
  - Representativeness
    - (a). Various typical measures are included in the target areas
    - (b). Typical problems cases occurring in Indonesia are included in the target areas
  - Priority by the PUPR and local governments (priority as a coastal problem)
  - Priority on coastal utilization / land use
  - Potential adverse impacts on the environment and society
- 3). Draft basic policy for coastal management will be developed to be applied to whole Indonesian coastal area, however it will be developed with the information of basic survey only in the Project. Therefore, additional survey of

whole Indonesian coastal area might be needed for finalization of the policy after the Project.

Direct beneficiaries are PUPR and indirect beneficiaries are Indonesian citizens.

8. Duration

The duration of the Project is two (2) years. The Project will start after a first expert arrival in Indonesia. In case of the impact of COVID-19 is still remaining, the both sides will make discussion once again about the timing of commencement of the Project.

9. Reports

JICA will prepare and submit the following reports to the PUPR in Indonesia.

- (1) 6 copies of Inception Report at the commencement of the first work period in Indonesia
- (2) 6 copies of Interim Report at the time about 6 months after the commencement of the first work period in Indonesia
- (3) 6 copies of Progress Report at the time of 12 months after the commencement of the first work period in Indonesia
- (4) 6 copies of Draft Final Report at the end of the last work period in Indonesia
- (5) 6 copies of Final Report within one (1) month after the receipt of the comments on the Draft Final Report

10. Environmental and Social Considerations

- (1) PUPR will abide by 'JICA Guidelines for Environmental and Social Considerations' (April 2010) in order to ensure that appropriate considerations will be made for the environmental and social impacts of the Project.

### **III. UNDERTAKINGS OF PUPR**

1. PUPR will take necessary measures to:

- (1) ensure that the technologies and knowledge acquired by the Indonesia nationals as a result of Japanese technical cooperation contributes to the economic and social development of Indonesia, and that the knowledge and experience acquired by the personnel of Indonesia from technical training as well as the equipment provided by JICA will be utilized effectively in the implementation of the Project; and
- (2) grant privileges, exemptions and benefits to members of the JICA missions referred to in II-4 above and their families, which are no less favorable than those granted to experts and members of the missions and their families of third countries or international organizations performing similar missions in Indonesia.

2. PUPR will take necessary measures to:

- (1) provide security-related information as well as measures to ensure the safety of members of the JICA missions;
- (2) permit members of the JICA missions to enter, leave and sojourn in Indonesia for the duration of their assignments therein and exempt them from foreign registration requirements and consular fees.

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- (3) exempt members of the JICA missions from taxes and any other charges on the equipment, machinery and other material limited for the implementation of the Project;
  - (4) exempt members of the JICA missions from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to them and/or remitted to them from abroad for their services in connection with the implementation of the Project; and
3. PUPR will bear claims, if any arises, against members of the JICA missions resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Project, except when such claims arise from gross negligence or willful misconduct on the part of members of the JICA missions.

#### **IV. MONITORING AND EVALUATION**

JICA will conduct the following evaluations and surveys to verify how the proposed plan is utilize and draw lessons. The PUPR is required to provide necessary support for them.

Ex-post evaluation: three (3) years after the project completion, in principle  
Follow-up surveys on necessity basis

#### **V. PROMOTION OF PUBLIC SUPPORT**

For the purpose of promoting support for the Project, PUPR will take appropriate measures to make the Project widely known to the people of Indonesia.

#### **VI. MISCONDUCT**

If JICA receives information related to suspected corrupt or fraudulent practices in the implementation of the Project, PUPR and relevant organizations will provide JICA with such information as JICA may reasonably request, including information related to any concerned official of the government and/or public organizations of the Indonesia.

PUPR and relevant organizations will not, unfairly or unfavorably treat the person and/or company which provided the information related to suspected corrupt or fraudulent practices in the implementation of the Project.

#### **VII. MUTUAL CONSULTATION**

JICA and PUPR will consult each other whenever any major issues arise in the course of Project implementation.

#### **VIII. AMENDMENTS**

The record of discussions may be amended by the minutes of meetings between JICA and PUPR. However, PO may be amended in the Monitoring Sheets.

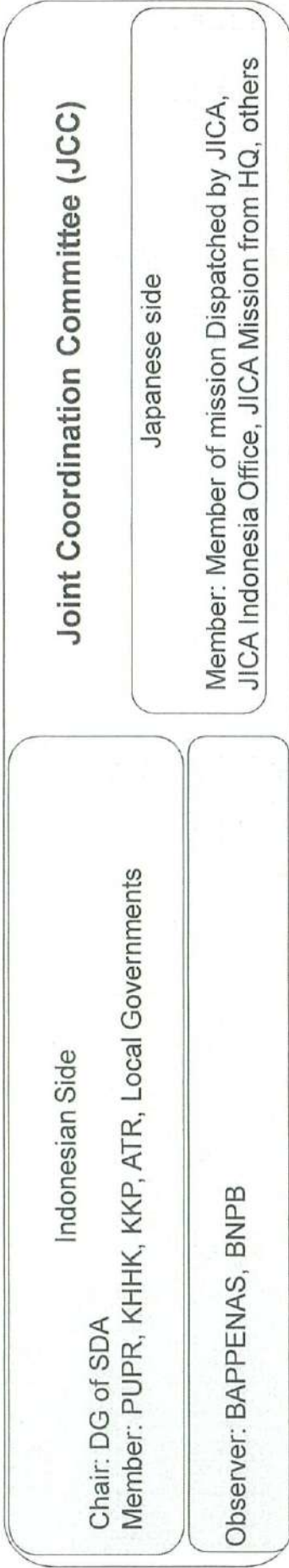
The minutes of meetings will be signed by authorized persons of each side who may be different from the signers of the record of discussions.

- Annex 1 Project Organization Chart
- Annex 2 A List of Proposed Members of Joint Coordinating Committee
- Annex 3 Terms of Reference for the Environmental and Social Considerations

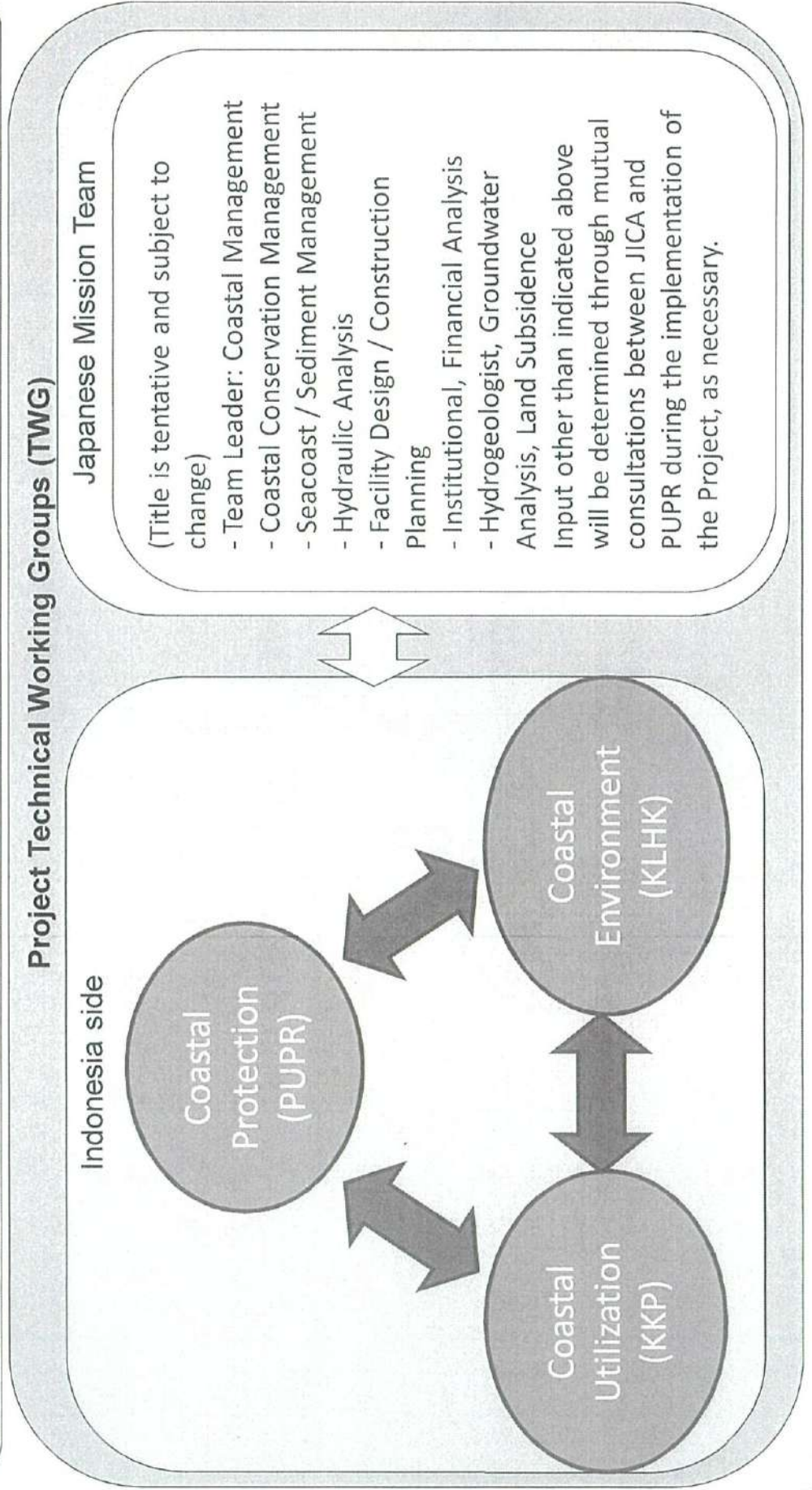
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# Project Organization Chart

Annex 1



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**A List of Proposed Members of Joint Coordinating Committee for the Project  
for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java  
Island**

PUPR will hold Joint Coordinating Committee (Hereinafter referred to as "JCC") at least once a year and wherever deems it necessary

The function of the JCC are as follows:

- To submit authorized organization to approve an annual work plan;
- To review the progress of the Project;
- To conduct evaluation of the Project;
- To exchange views and ideas on major challenges which will arise during the implementation period of the Project; and
- Any other related issues.

Composition of JCC is as follows

a) Chairperson:

- a) Director of General of Water Resources Members on Indonesia side:
- Representatives of Directorate of River and Coastal
  - Representatives of Directorate of Technical Development for Water Resources
  - Representatives of BBWS/BWS of pilot sites
  - Representatives of Directorate of System & Strategy of Water Resources Management
  - Representatives of Technical Centre for Coastal
  - Representatives of Technical Centre for River
  - Representatives of BPSDM
  - Representatives of Local Governments in the selected pilot sites
  - Representatives of Ministry of Marine and Fisheries (KKP)
  - Representatives of Ministry of Environment and Forestry (KLHK)
  - Representatives of Ministry of Agrarian Affairs and Spatial Planning (ATR)

Observers

- Representatives of National Development and Planning Agency (BAPPENAS)
- Representatives of National Disaster Management Authority (BNPB)

b) Members on Japanese side:

- Chief Representative of JICA Indonesia Office
- Member of Mission Dispatched by JICA
- Other person(s) concerned appointed by JICA

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**Terms of Reference for the Environmental and Social Considerations**

A Strategic Environmental Assessment (SEA) shall be conducted during the Project in accordance with JICA Guidelines for Environmental and Social Considerations in addition to the regulations in Indonesia. Terms of Reference for the SEA include, but not limited to, the followings:

Discuss whether the basic planning for the coastal protection by the Project needs SEA in conformity with the regulations in Indonesia such as Government Regulation No.46/2016 and Regulation of the Minister of Environment and Forestry No.P.69/MENLHK/SETJEN/KUM.1/12/2017. Gaps between the JICA Guidelines and the legal framework of Indonesia on environmental and social considerations and how they will be filled in the Project. If it is needed, the SEA shall follow the processes and contents required by those regulations in addition to the followings;

1. Establishing SEA team with PUPR, relevant organizations, and JICA study team;
2. Review of existing development policies, plans, projects, studies, and public/private investment at/around the project sites;
3. Analysis to identify environmental and social constrains to the coastal protection;
4. Identify the basic planning to achieve the objectives and goals as the subject of SEA with alternatives proposed considering strategic scenarios, concepts and prioritization;
5. Baseline survey of the existing environmental and social conditions (land use, natural environment, living area of indigenous people, economic and social condition, etc.);
6. Scoping (identify environmental and social issues to be evaluated and the methods with indicators and criteria for evaluation);
7. Analysis of possible impacts based on the scoping;
8. Comparative analysis of possible impacts of alternatives including 'without project' option and 'zero' option;
9. Preparing recommendations for reflecting to the basic planning which includes mitigation measures to avoid, minimized and compensate the impacts and/or monitoring methods (monitoring items, frequencies and methods) for the selected plan;
10. Provisional scoping for Basic Coastal Management Plan and the Coastal Facilities Plan prioritized in the basic planning;
11. Support to have stakeholder meetings by identifying the purpose of the meetings, participants, consultation methodologies and agenda, etc. to be held at least two occasions, 1) at the time of scoping and 2) at the time of preparation of a draft SEA report;
12. Preparing and finalizing a SEA report.

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MAIN POINTS DISCUSSED

1. BAST (handover delivery certificate of goods/services)
  - (1) Both parties confirmed that the Project is categorized as “Goods / Services” as stipulated in Article 42 (1) c of the Government Regulation No. 10/2011.
  - (2) In accordance with the Regulation of the Minister of Finance No. 99/ PMK.05 /2017, PUPR shall submit BAST (handover delivery certificate of goods/services) to the Ministry of Finance. In order to secure the accuracy of BAST, JICA Indonesia Office will provide PUPR with data on semester basis as follows:
    - Goods: name and price (in effective currency and Indonesian currency) per item of equipment handed over during last six months
    - Services: total expenditure (in Japanese currency and Indonesian currency) of last six months for experts, trainings, and missions
  - (3) PUPR will make and sign BAST based on the data provided by JICA, and after obtaining JICA's confirmation, submit it to the Ministry of Finance.
  - (4) The other points discussed between PUPR and JICA are referred to Appendix 3 Minutes of Meetings on Basic Planning Survey

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END




Date: 3 November 2022

Ref. No. 011/NCJI/JICA-PRJ/Nov/2022

**Mr. Ir. Bob Arthur Lombogia, M.Si**

Director for River and Coastal  
Directorate General of Water Resources  
Ministry of Public Work and Housing

**Subject: Chronology of Discussion/Coordination of Selection Candidate Areas of the Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island**

Dear Sir,

First of all, we would like to express our deeply grateful for your support in several activities since June 2022 such as the Kick-Off Meeting, Site Visit, Coordination Meeting, and Seminar, also for the willingness to prepare the workspace at the DGWR Building in regard to the “Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island” under Technical Cooperation Project by Japan International Cooperation Agency (JICA).

In this regard, we would like to inform the chronology of the discussion with the Directorate of River and Coastal, PUPR, and BAPPENAS to obtain mutual understanding between the Directorate of River and Coastal, BAPPENAS, and JICA Study Team (JST) regarding the selection of target area for preparation of coastal management plan.

The chronology of the discussions which were held until now is as follows.

- 1) Kick-off Meeting (7 July 2022)
  - According to the current Record of Discussion (R/D) which was agreed between DGWR of PUPR and JICA on March 2022, it was stated that the *two sites* will be selected as a target area for the preparation of the coastal management plan. However, it was requested by the Directorate of River and Coastal *from 2 sites to 3 sites, and JST was accepted.*
- 2) 1<sup>st</sup> Coordination Meeting with Director of River and Coastal (27 September 2022)
  - JST explained the candidate’s 4 areas and selected 3 areas based on study results and site investigation on July 2022.
  - The Directorate of River and Coastal requested to show the quantitative reason for the selection of candidates and selected areas for preparation of a coastal management plan based on

appropriate evaluation criteria.

- Also, it is requested from the Directorate of River and Coastal to cover the west part of Indramayu which was excluded from the proposed candidate area by JST.
- 3) 2<sup>nd</sup> Coordination Meeting with Director of River and Coastal (7 October 2022)
- JST presented the selected 3 sites which are Area-1' (Indramayu West - East), Area-2 (Pekalongan - Pemalang), and Area-4 (Rembang - Tuban) based on quantitative analysis applying appropriate evaluation criteria which were stated and agreed in R/D adding two more criteria, as requested in the 1<sup>st</sup> coordination meeting.
  - As a result of the discussion, the Directorate of River and Coastal basically accepted the procedure for analysis and selected 3 areas.
- 4) Coordination Meeting with BAPPENAS (26 October 2022)
- A coordination meeting with BAPPENAS was held to share the selected 3 areas and ask their opinion based on their (Minister of Bappenas) site visit to Demak in October. BAPPENAS requested to add one more site which was Sayung Area in Demak Regency.
  - As a result of the discussion, finally the JST accepted to add the study at Sayung Area in Demak, as far as the study level is a preliminary level which is a different level from the other selected 3 areas. BAPPENAS also realized and agreed.
- 5) 3<sup>rd</sup> Coordination Meeting with Director of River and Coastal (1 November 2022)
- Based on the above-mentioned discussion with BAPPENAS, Directorate of River and Coastal requested again to include Demak area as one of target area, even though total target area will increase from 3 to 4.
  - JST explained the difficulty to carry out the M/P study in Demak considering uncertain factors of phenomena, limited manpower, and specialty for existing dispatched JICA Study members.
  - As the result, the Directorate of River and Coastal realized and accepted the selected 3 target areas and to add to carry out the preliminary level study in Demak, which results were the same as that agreed in the discussion in BAPPENAS on 26 October 2022.

Based on the above-mentioned chronology of discussion between the Directorate of River and Coastal, BAPPENAS, and JST, we will continue further study at selected 3 areas for the preparation of the Coastal Management Plan and Coastal Facility Plan.

Also, we would like to inform you that the current R/D shall be amended including the information of above mentioned results between DGWR of PUPR and JICA.



Technical Cooperation Project  
for Coastal Disaster Risk Reduction Plan Study  
on the North Coast of Java Island

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For your kind cooperation, support and attention, we would like to express our deep greeting and we look forward to working and further discussing the "Project for Coastal Disaster Risk Reduction Plan Study on the North Coast of Java Island".



Sincerely yours,

Susumu ONAKA

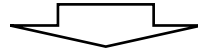
Team Leader of JICA Study Team

CC:

- JICA Indonesia Office

ANNEX-3: Definition of Area Division on Coastal Management Plan and Coastal Facilities Plan

1. Section of "Area" for Coastal Conservation



2. Division from "Area" to "Zone"



3. Selection of "Section" for Coastal Facility Plan from "Zone"



## 別添資料 2

JCC (Joint Coordination Committee):

Minutes of Meeting

MINUTES OF MEETING  
ON  
PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN STUDY  
ON THE NORTH JAVA ISLAND

AGREED UPON BETWEEN


MINISTRY OF PUBLIC WORKS AND HOUSING  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY  
AND  
PROJECT TEAM OF JAPAN INTERNATIONAL COOPERATION AGENCY  
(JICA STUDY TEAM)

Jakarta, February 14<sup>th</sup>, 2023

大 中 晋

Mr. Susumu ONAKA  
Team Leader/Coastal Disaster Risk Reduction Plan  
JICA Study Team



Mr. Bob Arthur Lombogia  
Director of Rivers and Coasts, DGWR  
Project Manager of the Project 

Witnessed by:

小 野 望

Mr. Nozomu ONO  
Senior Representative  
JICA Indonesia Office

In response to the official request submitted by the Indonesian Government, the Record of Discussion (hereinafter referred to as "R/D") on PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN STUDY ON THE NORTH COAST OF JAVA ISLAND (hereinafter referred to as "the Project") was signed on March 31<sup>st</sup>, 2022 between the Indonesian Side (Ministry of Public Works and Housing, hereinafter referred to as "PUPR") and Japan International Cooperation Agency (hereinafter referred to as "JICA") (collectively hereinafter referred to as "Both Parties"). Based on the R/D, the Project commenced on June 17<sup>th</sup>, 2022. In accordance with the Implementation Schedule of the Project, the First Joint Coordinating Committee (hereinafter referred to as "1<sup>st</sup> JCC") was held on February 14<sup>th</sup>, 2023, and had a series of discussions on selection of three priority areas for preparation of basic coastal management plan, basic understanding of the objective of the Project and necessity for exchange opinion among related agencies proposed by the JICA Study Team among the participants.

In the course of discussions, all the participants confirmed the main items on the 1<sup>st</sup> JCC given in Appendix 1.

Appendix 1: Main Points Confirmed

Appendix 2: Image of Working Group (W/G) & Close Group Discussion (CGD)

Appendix 3: Site Visit to Bali Beach Conservation Project

Appendix 4: Attendance List of JCC

Appendix 5: Presentation Materials of JCC

## Main Points Confirmed

### 1. Selection of Target Area

- JCC Members confirmed that the target areas for developing the basic coastal management plan had been decided to change from two areas (stated in the original R/D) to three areas based on the discussions with Project implementing agency, PUPR.
- JCC members agreed on three selected areas as target areas for developing basic coastal management plan, which are Area I: Indramayu (about 100 km coastal length), Area II: Pematang - Pekalongan (about 46 km) and Area III: Rembang – Tuban (52 km), by applying 2-step selection with three evaluation criterias as 1<sup>st</sup> step selection and six evaluation criterias as 2<sup>nd</sup> step selection as presented in JCC.
- JICA Study Team informed that the preliminary level study at Sayung Area in Demak will be conducted by referring to the existing available documents and information, but the study level will be different from basic coastal management plan and coastal facility plan on the three selected areas above.
- The boundary of each selected area will be finalized by taking into account the further discussion among PUPR and each Balai Besar Wilayah Sungai (hereinafter referred to as "BBWS") of selected areas as far as the changes or revisions of boundary is within an adjustable level.

### 2. Expected Goal on Coastal Management

- JCC members agreed to have the same understanding on coastal management that the planned and implemented coastal protection/conservation measures shall basically considered not only "Protection" but also "Environment" and "Utilization" with a wide viewpoint of coastal process, mechanism and impact due to artificial modification of the coast.

### 3. Formulation of Working Group (W/G) and Closed Group Discussion (CGD) (shown in the Appendix 2)

- JCC members agreed to formulate the Working Group with selected members from related agencies and JICA Study Team (hereinafter referred to as "W/G) and support to join and discuss in the W/G in order to prepare the draft of [Basic Policy for Coastal Management] and [Basic Coastal Management Plan].
- JCC Members realized that the frequent discussions are required to finalize the three output plans by consensus with the Indonesian side.

- PUPR suggested to formulate a Close Group Discussion with PUPR, each BBWS and JICA Study Team (hereinafter referred to as "CGD") as shown in the Appendix 2 to have in-depth discussions for the preparation of the three outputs and to expect the smooth coordination and discussion in the W/G with other agencies.
- JICA Study Team agreed to consider the possibility for above suggestion on holding W/G and CGD frequently by taking into account the assignment schedule of JICA Study Team.

#### **4. Selection of Working Group (W/G) Members**

- JCC Members agreed that the proposed W/G members in the Government of Indonesia side will be selected from PUPR, KKP, KLHK, BRGM, BAPPENAS, Kemenko Marves to discuss and exchange opinion with JICA Study Team for draft preparation of 「Coastal Management Plan」 and 「Basic Policy of Coastal Management」 based on draft ideas prepared by JICA Study Team from technical and institutional points of view.
- PUPR agreed to request and coordinate with KKP, KLHK, BRGM, BAPPENAS and Kemenko Marves for the selection of members and inform to JICA Study Team. Also, these parties agreed to participate the W/G discussions according to the planned schedule as shown in the Appendix 2.

#### **5. Selection of Participants for Site Visit to Bali Beach Conservation Project**

- Three parties (PUPR, KKP and KLHK) confirmed to select the participants who attend the site visit for Bali Beach Conservation Project (planned on May) and inform to JICA Study Team according to the planned image as shown in the Appendix 3.

#### **6. Others**

- JICA Study Team informed that the JICA Knowledge Co-Creation Program entitled 「Sustainable Coastal Protection Measures at Island Countries」 will be planned in this year (tentatively in November 2023 for 3 weeks) which has the same concept as the Training on similar title in 2022). JICA Study Team requested to consider the selection of training participants from related agencies (PUPR, KKP, KLHK), accordingly.

(End of document)

## Appendix 2

### Image of Working Group (W/G) & Close Group Discussion (CGD)

#### 1. Purpose of W/G

To discuss and exchange opinion with PUPR, KKP, KLHK, BAPPENAS, BRGM, Kemenko Marves and JICA Study Team based on draft idea prepared by JICA Study Team for preparation of:

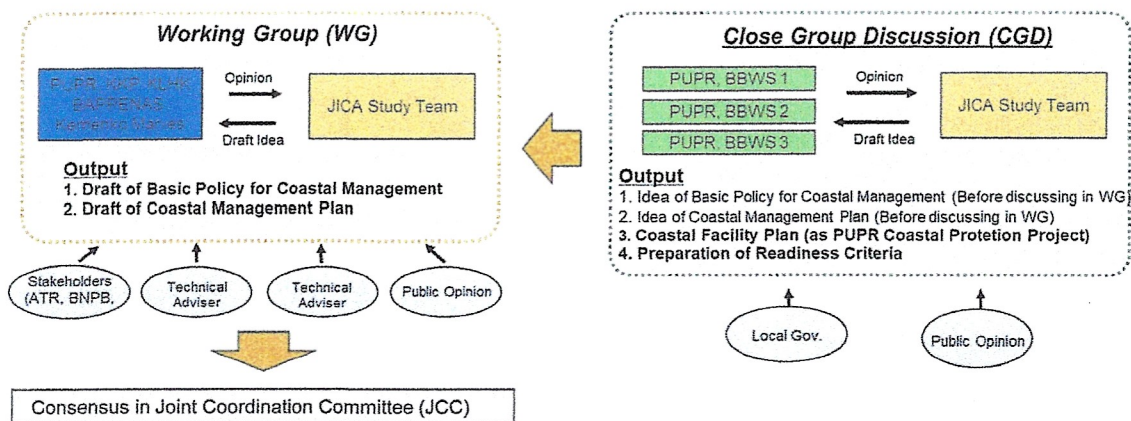
- 1) "Draft of Basic Coastal Management Plan" for selected three areas
- 2) "Draft of Basic Policy for Coastal Management"

#### 2. Purpose of CGD

To discuss and exchange opinion with PUPR, BBWS for each area and JICA Study Team based on draft idea prepared by JICA Study Team for:

- 1) Idea of Basic Policy for Coastal Management (Before discussing in WG)
- 2) Idea of Coastal Management Plan (Before discussing in WG)
- 3) Coastal Facility Plan (as PUPR Coastal Protection Project)
- 4) Preparation of Readiness Criteria

#### 3. Image of W/G & CGD



#### 4. Planned Schedule of W/G and CGD (Tentative Idea)

Study Item	Related Agencies	2024														
		2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
1. Draft of Basic Policy for Coastal Management	PUPR KKP, KLHK															
2. Draft of Basic Coastal Management Plan	BAPPENAS, Kemenko Marves															
3. Preparation of Coastal Facility Plan (Pre-F/S Level) for Selected Section	PUPR, BBWS															
Planned Assignment of JICA Study Team																
Schedule for JCC	1 time/year	●													●	
Schedule for W/G	6 times			①②			③④			⑤⑥						
Schedule for CGD (Tentative)	12 times	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫			

## Site Visit to Bali Beach Conservation Project

### 1) Purpose

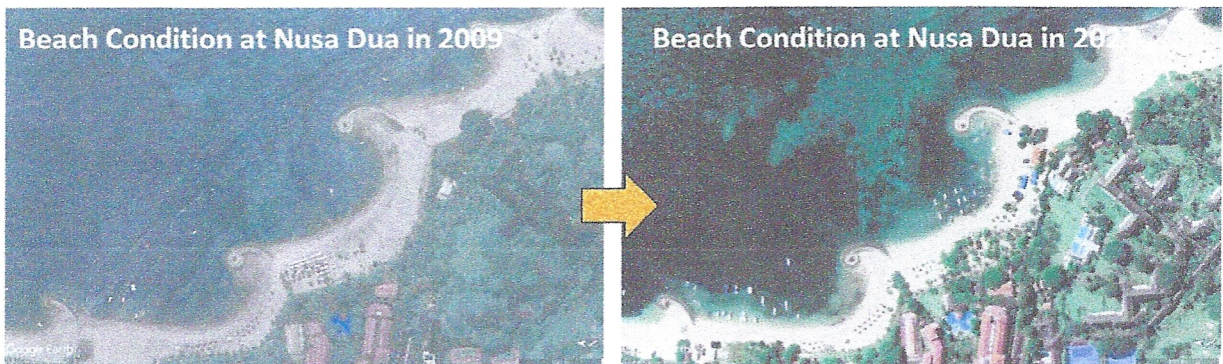
- To enhance understanding of coastal conservation measure with harmonization of "protection", "utilization", "environment", and adaptive management.
- To exchange opinions with executed Project Management Unit (BBWS)

### 2) Estimated Schedule

- May in 2023 (about for 3 days)

### 3) Members

- 2 officials from PUPR
- 2 officials from KKP
- 2 officials from KLHK
- JICA Study Team
- (JICA Technical Adviser, but not decide yet)



## Appendix 4

### Attendance List:

No	Name	Institutions/ Division	Position	Remarks
<b>PUPR – DG of Water Resources</b>				
1	A. Zubaidi	PUPR	Directorate of Rivers and Coasts	
2	Anggun Etika P.		Directorate of Rivers and Coasts	
3	Nimas Ayu		Directorate of Rivers and Coasts	
4	Wachidah N.		Directorate of Rivers and Coasts	
5	Mukhlis Arief Irvandi		Directorate of Rivers and Coasts	
6	Sevi Inasih		Directorate of Rivers and Coasts	
7	Paula Swastika		Directorate of Rivers and Coasts	
8	Nadia Salsabila		Directorate of Rivers and Coasts	
9	Jonathan Sebastian E. H.		Directorate of Rivers and Coasts	
10	Ersty Nurul		Directorate of Rivers and Coasts	Online
11	Abdul Hanif F.		Directorate of Rivers and Coasts	Online
12	Bagas M.		Directorate of Rivers and Coasts	Online
13	Thomson		Directorate of Rivers and Coasts	Online
14	Hatta Putra		Directorate of Rivers and Coasts	Online
15	Wahyu		Directorate of Rivers and Coasts	Online
16	Rahmad A.		Directorate of Rivers and Coasts	Online
17	Yuddi Yudistira		Directorate of Rivers and Coasts	Online
18	Farhan Putra Riyadi		Directorate of Rivers and Coasts	Online
19	Anthony Harlly Sasono		Directorate of Rivers and Coasts	Online
20	Willy Lucyta Nugraha		Directorate of Rivers and Coasts	Online
21	Muhammad Nur Azmi		Directorate of Rivers and Coasts	Online
22	Gauri A. Kartika		Directorate of Water Resources Management System and Strategy	
23	M. Arsy D.	Directorate of Water Resources Management System and Strategy		
24	Mariyanti Sabuna	Directorate of Water Resources Management System and Strategy	Online	
25	Muhammad Fauzi	Directorate of Water Resources Engineering Development	Online	
26	Irham Adrie Hakiki	Balai Teknik Pantai	Online	
27	Willy Raharjo	BBWS Citarum	Online	
28	Uki	BBWS Cimanuk Cisanggarung	Online	
29	Dewi Shinta Rulisyani	BBWS Pemali Juana	Online	
30	Fuad	BBWS Pemali Juana	Online	
31	Yulius	BBWS Pemali Juana	Online	
32	Sugeng Wiratna	BBWS Bengawan Solo	Online	
33	Riana	KLHK	Directorate of Regional and Sectoral Policy of Environmental Impact Prevention	Online
34	Mohammad Irfan Saleh	BAPPENAS	Directorate of Water Resources	Online
35	Ewin Sofian Winata		Directorate of Water Resources	Online
36	Siti Amira		Directorate of Water Resources	Online
37	Eva Afifah		Directorate of Water Resources	Online
38	Dian Azmi		Directorate of Water Resources	Online
<b>JICA (Japan International Cooperation Agency)</b>				
39	Mr. Ono	JICA Indonesia		
40	Ms. Kashihara	JICA Indonesia		
41	Ms. Hastin Dian	JICA Indonesia		
42	Mr. Kikuta	JICA Expert		
<b>JICA Study Team</b>				
43	Mr. Onaka	Team Leader		
44	Mr. Ichikawa	Deputy Team Leader		
45	Mr. Endo	Team member		
46	Mr. Takagi	Team member		

No	Name	Institutions/ Division	Position	Remarks
47	Mr. Yonekura	Team member		
48	Mr. Mori	Team member		
49	Mr. Ochi	Team member		
50	Mr. Yamanami	Team member		
51	Mr. Kurata	Team member		
52	Mr. Higashiguchi	Team member		
53	Ms. Ueda	Team member		
54	Mr. Murakami	Team member		
55	Ms. Yohana	Local Staff		
56	Ms. Yuniar	Local Staff		
57	Ms. Amalia	Local Staff		

**MINUTES OF MEETING  
ON  
PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN STUDY  
ON THE NORTH JAVA ISLAND**

**AGREED UPON BETWEEN**

**AUTHORITIES CONCERNED IN INDONESIA  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY  
AND  
PROJECT TEAM OF JAPAN INTERNATIONAL COOPERATION AGENCY  
(JICA STUDY TEAM)**

**Jakarta, January 19, 2024**

大 中 望

Mr. Susumu ONAKA  
Team Leader/Coastal Disaster Risk Reduction Plan  
Study JICA Study Team



Dr. Dwi Purwanto, S.T., M.T  
Director of Rivers and Coasts, DGWR  
Project Manager of the Project



Witnessed by:

小 野 望

Mr. Nozomu ONO  
Representative  
JICA Indonesia Office

In response to the official request submitted by the Indonesian Government, the Record of Discussion (hereinafter referred to as “R/D”) on PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN STUDY ON THE NORTH COAST OF JAVA ISLAND (hereinafter referred to as “the Project”) was signed on March 31, 2022 between the Indonesian Side (Ministry of Public Works and Housing, hereinafter referred to as “PUPR”) and Japan International Cooperation Agency (hereinafter referred to as “JICA”) (collectively hereinafter referred to as “Both Parties”). Based on the R/D, the Project commenced on June 17, 2022. In accordance with the Implementation Schedule of the Project, the Second Joint Coordinating Committee (hereinafter referred to as “2<sup>nd</sup> JCC”) was held on January 19, 2024 and had a series of discussions for obtained outputs by the JICA Study Team (hereinafter referred to as “JST”) until this period and further required actions by the end of the Project. The meeting had presentation from JST on 1) Confirmation on Obtained Outputs (until January 2024) and 2) Further Required Actions by the end of the Project (June 2024).

In the course of discussions, all the participants confirmed the main items on the 2<sup>nd</sup> JCC given in Appendix 1.

Appendix 1: Main Points Confirmed

## Main Points Confirmed

### 1. Confirmation on Obtained Outputs (until Jan. 2024)

#### Output 1: Draft of Basic Policy for Coastal Management

- JST has already prepared and submitted the draft of Basic Policy for Coastal Management for both English and Indonesian versions and idea for legalization based on the discussions through the Working Group (hereinafter referred to as W/G)

#### Output 2: Draft of “Basic Coastal Management Plan”

- Three areas were selected as target area for developing the draft of basic coastal management plan, which are Area I: Indramayu (about 100 km coastal length), Area II: Pematang - Pekalongan (about 46 km) and Area III: Rembang – Tuban (52 km) and agreed with JCC members in the 1<sup>st</sup> JCC.
- JST has prepared and presented the basic procedure for preparation of the Basic Coastal Management Plan, which is expected to be prepared by the Government of Indonesia (hereinafter referred to as “GOI”) extensively, following this Projects.
- JST has prepared and presented the recommended Basic Coastal Management Plan for selected three areas, considering coastal physical characteristics, current condition and urgency, utilization of coastal area and hinterland, etc. as the case study.
- Also, the required structures and action for issuing of the Basic Coastal Management Plan has been discussed through W/G based on the basic idea prepared by JST.

#### Output 3: Coastal Facility Plan at Selected Sections

- Three sections (2 sections in Area I and 1 section in Area II) were selected as study area for preparation of coastal facility plan through the Close Group Discussions (CGD).
- Both parties (PUPR and JICA) were agreed to add one more section at neighboring coastal area in Area III with about 18 km, taking into account strong request from the PUPR and importance on protection at this coast (refer to Attachment (b), p 56).
- JST has prepared and presented the recommended Coastal Facility Plan for selected four sections and continued to discuss with PUPR about the contents of proposed measures as well as prioritization of each section, construction cost and formulation as loan project.

#### Output 4: Technical Transfer / Capacity Development

- Understanding of the idea and procedure for coastal management system for the members of W/G based on those in Japan has been enhanced through several opportunities of discussions in W/G and CGD.
- Understanding of coastal protection measures with harmonizing environment and utilization, and management issues afterward has been enhanced by the training program of coastal conservation project in Bali Island (BBCP1 & 2) and JICA Knowledge Co-Creation Program on Sustainable Coastal Protection Measures in Japan

#### Output (Additional): Preliminary Study at Sayung Area in Demak

- Preliminary Study at Sayung Area in Demak was conducted following the amended R/D (signed by both parties on 17 February 2023). The study result was presented to PUPR and BAPPENAS on 19 October 2023 and the final output will be submitted as the part of final report.

## **2. Further Required Actions by the end of the Project (June 2024)**

#### Basic Policy for Coastal Management

- The W/G members in Indonesia shall continue to discuss for finalization of the contents of Basic Policy for Coastal Management and its legislation based on the proposed idea by JST. Finalization of the contents shall be completed by the end of the Project, and the action plan toward the legislation shall be discussed and agreed in the final 3<sup>rd</sup> JCC which will be scheduled in May or June of 2024.
- JST will continue to support above actions as required by the end of the Project.

#### Basic Coastal Management Plan

- The W/G members in Indonesia shall review and provide their comments for the draft of basic coastal management plan at three sites recommended by the JST for finalization. The JST shall update/revise the draft of basic coastal management plan at three areas based on the comment from the W/G members by the end of the Project.
- The W/G members in Indonesia shall prepare the roadmap to roll up the preparation of Basic Coastal Management Plan to other main islands (as stated in the draft of Basic Policy for Coastal Management) in Indonesia.
- JST will continue to support above actions as required by the end of

the Project.

#### Coastal Facility Plan at Selected Sections

- PUPR (including each BBWS in the target sites) shall provide further information regarding unit price of each construction item for coastal facilities, procurement of construction materials such as sand, rock, etc. and review the draft of construction cost prepared by JST. JST shall continue to update the prepared coastal facility plan based on such information.
- As a part of technical transfer, PUPR will arrange and conduct stakeholder meeting to exchange opinion for the Coastal Facility Plan at selected four sections with relevant stakeholders, which will be conducted on January and February 2024 (refer to Attachment (b), p 72-74).
- PUPR will take necessary actions for the formulation of coastal protection project on the north coast of Java Island as loan project based on the prepared coastal facility plan.

#### Others

- GOI shall reflect the contents proposed in the Project (refer to Attachment (b), P 6-7) into RPJMN (2025 – 2029) to establish and develop the sustainable coastal management system to achieve the mid- and long-term coastal protection/conservation with harmonizing environment and utilization. This procedure shall be done by GOI, cooperating with related stakeholders taking into account the condition of coastal development.

(End of document)

#### **Attachment:**

- (a) Attendance List
- (b) Presentation Materials of 2<sup>nd</sup> JCC

**Attachment a: Attendance List:**

No	Name	Institutions/ Division	Remarks
<b>PUPR – DG of Water Resources</b>			
1	Leo Eliasta	Direktorat Sungai dan Pantai, PUPR	Offline
2	Anggun Etika P.	Direktorat Sungai dan Pantai, PUPR	Offline
3	Nimas Ayu	Direktorat Sungai dan Pantai, PUPR	Offline
4	Sudarto	Balai Teknik Pantai	Offline
5	Bayu	Balai Teknik Pantai	Offline
6	Sevi Inasih	Direktorat Sungai dan Pantai, PUPR	Offline
7	Paula Swastika	Direktorat Sungai dan Pantai, PUPR	Offline
8	Nadia Salsabila	Direktorat Sungai dan Pantai, PUPR	Offline
9	Jonathan Sebastian E. H.	Direktorat Sungai dan Pantai, PUPR	Offline
10	Ersty Nurul	Direktorat Sungai dan Pantai, PUPR	Offline
11	Abdul Hanif F.	Direktorat Sungai dan Pantai, PUPR	Offline
12	Mukhlis Arief Irvandi	Direktorat Sungai dan Pantai, PUPR	Offline
13	Firlana Hanifah	Direktorat Sungai dan Pantai, PUPR	Offline
14	Hatta Putra	Direktorat Sungai dan Pantai, PUPR	Online
15	Wahyu	Direktorat Sungai dan Pantai, PUPR	Online
16	Rafika S.D	Direktorat Sungai dan Pantai, PUPR	Offline
17	Asyifa Nur Hendina	Direktorat Sungai dan Pantai, PUPR	Offline
18	Farhan Putra Riyadi	Direktorat Sungai dan Pantai, PUPR	Offline
19	Anthony Harlly Sasono	Direktorat Sungai dan Pantai, PUPR	Online
20	Juan Talitha	Direktorat Sungai dan Pantai, PUPR	Offline
21	Silmi F. R	Direktorat Sungai dan Pantai, PUPR	Offline
22	Galih Wijaya	Direktorat Sungai dan Pantai, PUPR	Offline
23	Handayani Lestari	Direktorat Sistem dan Strategi Pengelolaan Sumber Daya Air, PUPR	Offline
24	Dery Uristy	Direktorat Sungai dan Pantai, PUPR	Offline
25	Tonigar Murizwa	Direktorat Sungai dan Pantai, PUPR	Online
26	Irham Adrie Hakiki	Balai Teknik Pantai	Offline
27	Ervan	BBWS Citarum	Online
28	Heri Suherlan	BBWS Citarum	Online
29	Tri Wijayanto	BBWS Cimanuk Cisanggarung	Online
30	Heni Krisyani	BBWS Pemali Juana	Online
31	Winda	BBWS Bengawan Solo	Online
32	Bangda	Kementerian Dalam Negeri	Online
33	Sani Satya	Bappeda Jawa Barat	
34	Nita Juwita P	Bappeda Jawa Tengah	
35	Dimas Baskoro	Direktorat Pencegahan Dampak Lingkungan Kebijakan Wilayah dan Sektor, KLHK	Online
36	Fina Ardarini	Kementerian Kelautan dan Perikanan	Offline
37	Giri Wilisandy	Kementerian Kelautan dan Perikanan	Offline
38	Mohammad Irfan Saleh	Direktorat Sumber Daya Air, BAPPENAS	Online
39	Ewin Sofian Winata	Direktorat Sumber Daya Air, BAPPENAS	Online
40	Siti Amira	Direktorat Sumber Daya Air, BAPPENAS	Offline
41	Aswin Al Farisi	Direktorat Sumber Daya Air, BAPPENAS	Offline
42	Heny Susilowati	ATR/BPN Wilayah I, Dit Bina Pengadaan dan Pencadangan Tanah	Offline
43	Kemal Syan	ATR/BPN Wilayah I, Dit Bina Pengadaan dan Pencadangan Tanah	Offline
<b>JICA (Japan International Cooperation Agency)</b>			
44	Ms. Kashihara	JICA Indonesian Office	Offline
45	Ms. Hastin Dian	JICA Indonesian Office	Offline
46	Mr. Yamamoto	JICA Expert	Offline
47	Ms. Dyas	JICA Expert	Offline
<b>JICA Study Team</b>			
48	Mr. Onaka	JICA Study Team	Offline
49	Mr. Ichikawa	JICA Study Team	Offline
50	Mr. Endo	JICA Study Team	Offline
51	Mr. Takagi	JICA Study Team	Online
52	Mr. Yonekura	JICA Study Team	Online

53	Mr. Mori	JICA Study Team	Offline
54	Mr. Takao	JICA Study Team	Offline
55	Mr. Higashiguchi	JICA Study Team	Offline
56	Mr. Miyagawa	JICA Study Team	Offline
57	Mr. Murakami	JICA Study Team	Offline
58	Mr. Azka	JICA Study Team	Offline
59	Ms. Shinta	JICA Study Team	Offline
60	Ms. Yohana	JICA Study Team	Offline



## Contents of Presentation

1. Main Agenda of 2<sup>nd</sup> JCC
2. Overview of the Project
3. Selection of Three Priority Areas
4. Basic Policy for Coastal Management
5. Basic Coastal Management Plan for Selected 3 Areas
6. Coastal Facility Plan for Selected Sections
7. Technical Transfer & Capacity Development
8. Main Points to be Confirmed

2

# 2<sup>nd</sup> Meeting of Joint Coordination Committee (JCC)

2024. 1.19

JICA Study Team

## 1. Main Agenda of 2<sup>nd</sup> JCC

- 1) To confirm outputs in the Project until now
- 2) To confirm remaining issues and action take for PUPR, other agencies and JST by the end of the Project

3

## 2. Overview of the Project

4

## Coastal Issues at the North Coast of Java Island

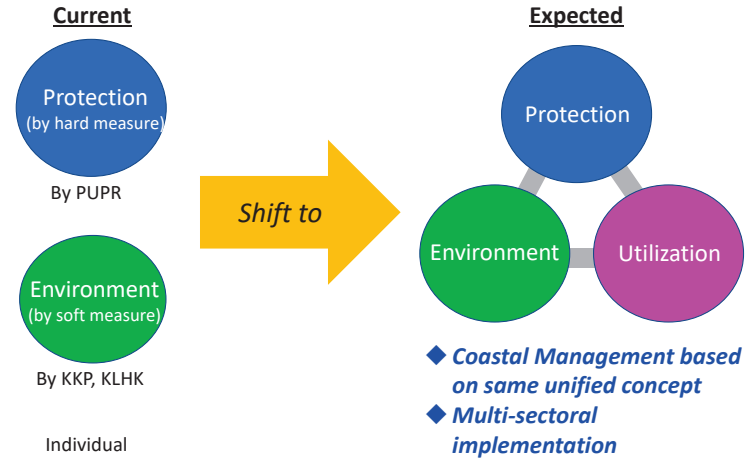
- ◆ Most of coastal area has been developed as the areas of infrastructural (port), residential, agricultural, fishery and also industrial area.
- ◆ Coastal disaster and degradation such as coastal erosion, tidal flooding and land subsidence, large-scale of topography change and sedimentation at river basin, were identified at north coast of Java Island.
- ◆ Comprehensive and integrated viewpoints on coastal management with harmonizing "Protection", "Environment" and "Utilization" are not considered sufficiently in Indonesian coastal management (most projects seems "localized" and "individual")
- ◆ Coastal protection/conservation measures have been implemented basically by each ministry individually based on each ministry's mandate.



It is important to realize the coastal management based on comprehensive & integrated coastal management plan with understanding of coastal process, mechanism and above 4 points of view.

5

## Expected Goal for Coastal Management in Indonesia

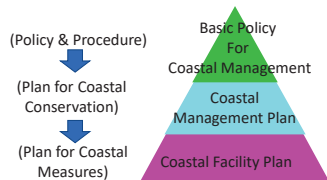


6

## Objective of the Project

To prepare

1. Draft of **Basic Policy for Coastal Management**
2. Draft of **Basic Coastal Management Plan**
3. Plan for **Coastal Facility Plan** as Pre-F/S level at selected sections from 3 priority areas

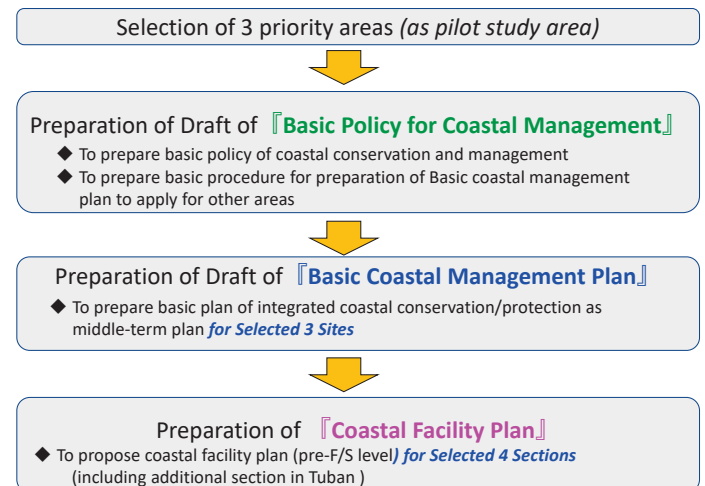


## Important Point is...

Prepared **Coastal Facility Plan** and **Basic Coastal Management Plan** shall be considered harmonization of "Coastal Protection", "Environment" and "Utilization"

7

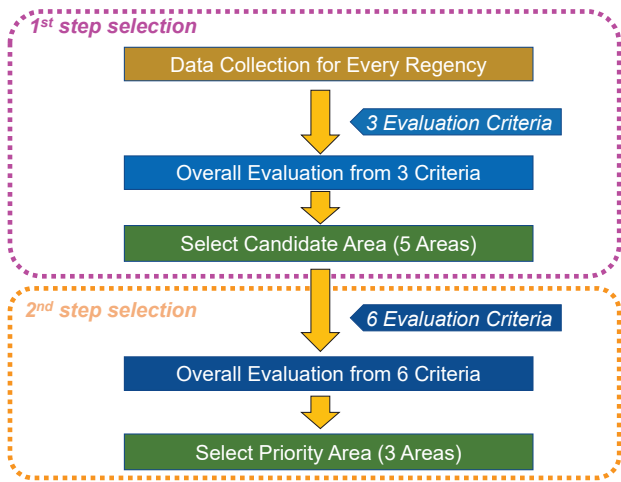
## Procedure of this Study



8

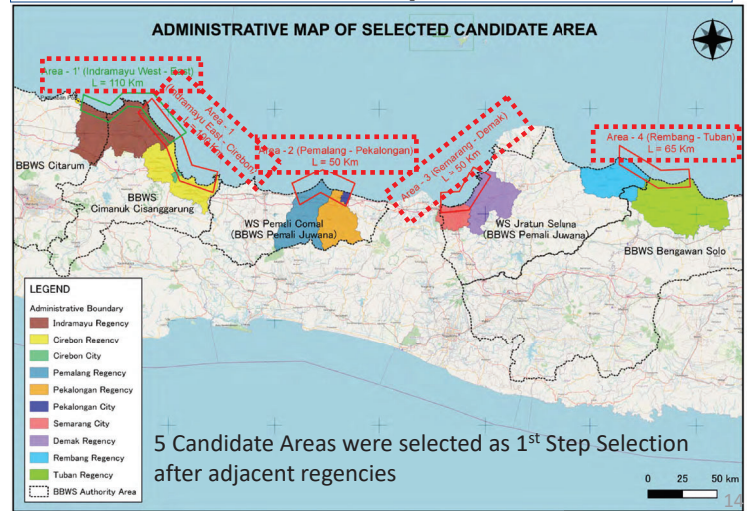


## Procedure for Selection of 3 Priority Areas

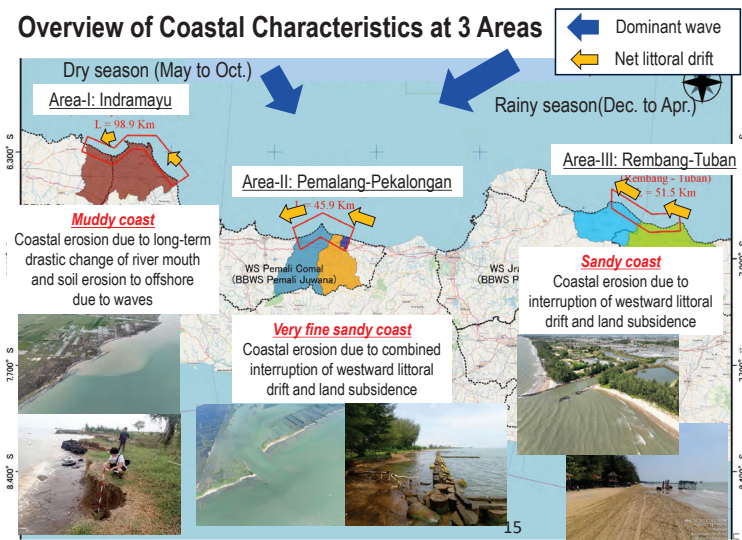


13

## Result of 1<sup>st</sup> Step Selection



## Overview of Coastal Characteristics at 3 Areas



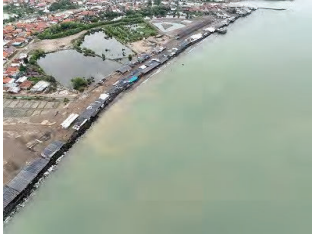
15

## Area I: Indramayu (west) (2022.10.9)



16

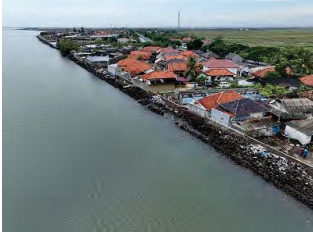
**Area I: Indramayu (west) (by Drone, 2022.8.9)**



Beach Condition at Domestic Tourism Area



Silt Diffusion due to Land Erosion



Protection Measure (by line) at Residential Area



Protection Measure (Mangrove Plantation) at Fish Pond<sub>17</sub>

**Area II: Pekalongan (2022.10.9)**



On-going Protection Measures by Province



On-going Protection Measures by Province



Increased of Crown Height as Protection Measures by Province



Increased of Crown Height as Protection Measures by Province<sub>18</sub>

**Area II: Pekalongan (by Drone, 2022.10.9)**



Coastal Use at Urban Area



Coastal Protection at Urban Area (Line Protection)

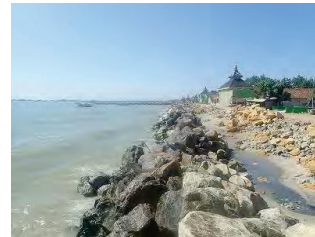


Coastal Protection at Urban Area (Line Protection)



Coastal Protection at Urban Area (Line Protection)

**Area III: Rembang (2022.8.9)**



On-going Protection Measure by BBWS



Offshore Breakwaters



Coastal Condition at Down-drift Side



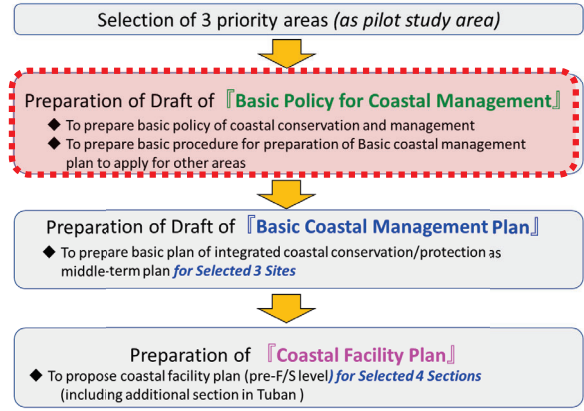
Coastal Condition at Down-drift Side

**Area III: Rembang (by Drone, 2022.8.9)**



21

**4. 『Basic Policy for Coastal Management』**

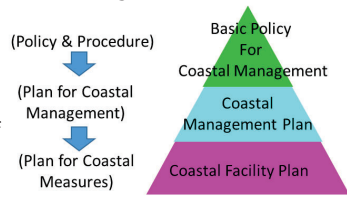


22

**Objective & Position of 『Basic Policy for Coastal Management』**

Objective

- ◆ To state clearly the basic policy on coastal management for planning of coastal management in Indonesia (especially for main islands)
- ◆ To define the basic procedure for preparation of Basic coastal management plan



Basic Policy is basis for coastal management **with unified concept to Multi-sectors** who are in charge of coastal management & implementation

Legalization is required to comply this basic policy

23

**Table of Contents of Basic Policy in Indonesia**

**I. Objective of “Basic Policy for Coastal Management”**

**II. Definition and Basic Role on “Basic Coastal Management Plan”**

**Clause 1 Basic Guidelines for Coastal Management**

- 1 Basic philosophy of coastal management
- 2 Direction of coastal management
- 3 Direction of implementation of coastal facilities
  - 3.1 Direction on new implementation or improvement of coastal protection/conservation facilities
  - 3.2 Direction on maintenance or repair of coastal protection/conservation facilities
- 4 Other considerations on coastal management
  - 4.1 Promotion of initiatives from a broad and comprehensive perspective
  - 4.2 Promotion of cooperation with local communities and raising awareness of coastal conservation
  - 4.3 Promotion of research, studies and monitoring

**Clause 2 Division of Area for Preparation of Basic Coastal Management Plan**

**Clause 3 Basic Items for Preparation of the Basic Coastal Management Plan**

- 3.1 Basic items to be included into the Basic Coastal Management Plan
  - (a) Basic items concerning Coastal Management
  - (b) Basic items concerning implementation of Coastal Facilities
- 3.2 Important items to be considered into the Basic Coastal Management Plan
  - (a) Insurance of consistency with relevant development plans
  - (b) Cooperation and coordination with relevant administrative agencies
  - (c) Participation of residents and information disclosure
  - (d) Review of plan and revision properly

24

## Essence of Basic Policy for Coastal Management

### I. Objective of “Basic Policy for Coastal Management”

- To provide the principles on coastal **management, development and conservation** toward achieving the realization of desirable future vision of the coast of Indonesia, **along with its continuous coastal development**

### II. Definition and Basic Role on “Basic Coastal Management Plan”

- Defining the basic terms required for the Basic Coastal Management Plan
- Clarifying the relevant agencies responsible for establishing and enacting the Basic Coastal Management Plan

25

## Essence of Basic Policy for Coastal Management

### Clause 1 Basic Guidelines for Coastal Management

#### Basic philosophy of coastal management

- **Achieving coastal protection and conservation harmonizing with coastal utilization and coastal environment**, and passing on the coast as national asset to the next generation **(Necessary to be determined by Indonesia)**

#### Direction of coastal management

- Ensuring appropriate protection levels against disasters
- Promoting conservation and creation of coastal environment that coexist with nature
- Promoting proper coastal utilization by public
- Ensuring appropriate maintenance and repair of coastal facilities **to maintain their functions**

#### Measures to achieve the direction of coastal management

- Promotion of development of safer coast
- Promotion of measures for the conservation of nature-rich coast, **and their creation as required**
- Promotion of measures for the beloved coast
- Promotion of implementation of planned and effective maintenance and repair of coastal facilities

#### Other considerations on coastal management

- Promotion of initiatives from a broad and comprehensive perspective
- Promotion of cooperation with local communities and raising awareness of coastal conservation
- Promotion of research, studies, and **monitoring**

26

## Essence of Basic Policy of Coastal Management

### Clause 2

#### Division of Area for Preparation of Basic Coastal Management Plan

- **Five main Islands (Sulawesi, Kalimantan, Java, Papua, Sumatra) and two island-group (Maluku Islands and Nusa Tenggara)**

### Clause 3

#### Basic Items for Preparation of the Basic Coastal Management Plan

- Current status of the coast and the direction of coastal conservation
- Items related to coastal protection
- Items related to the management, maintenance and conservation of the coastal environment
- Items related to proper public utilization of the coast
- Items related to new development or repair of coastal facilities
- Items concerning the maintenance or repair of coastal facilities
- Other important items to be considered in the Basic Coastal Management Plan

27

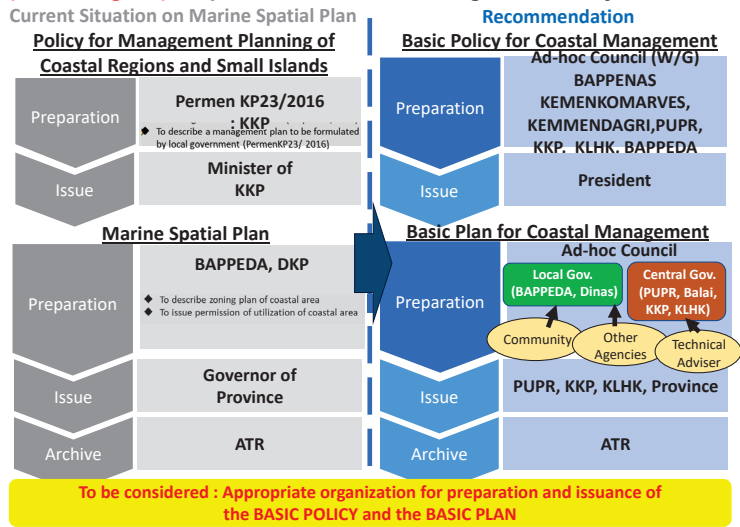
## Required Action of Indonesian side for Finalization & Issuing of Basic Policy

- ◆ JICA Study Team has prepared the draft of “Basic Policy for Coastal Management” with discussions of Indonesian side. We will share the final draft.
- ◆ What to do next based on this idea is up to Indonesian opinion and action
- ◆ Further required actions are Finalization and Issuing of “Basic Policy for Coastal Management”, and preparation of coastal management plan (M/P) for other coasts not only for the north of Java coast but also for other main islands
- ◆ We recommend to conclude the authorization through further discussion in the Ad-hoc Council (like this W/G)

(Material for 3<sup>rd</sup> W/G)

28

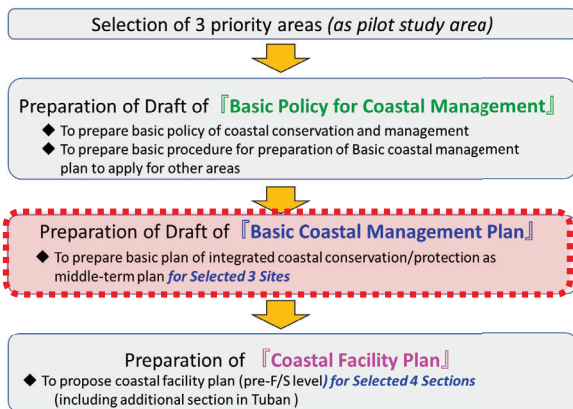
**(Draft Image of) Preparation of Coastal Management Policy and Plan**



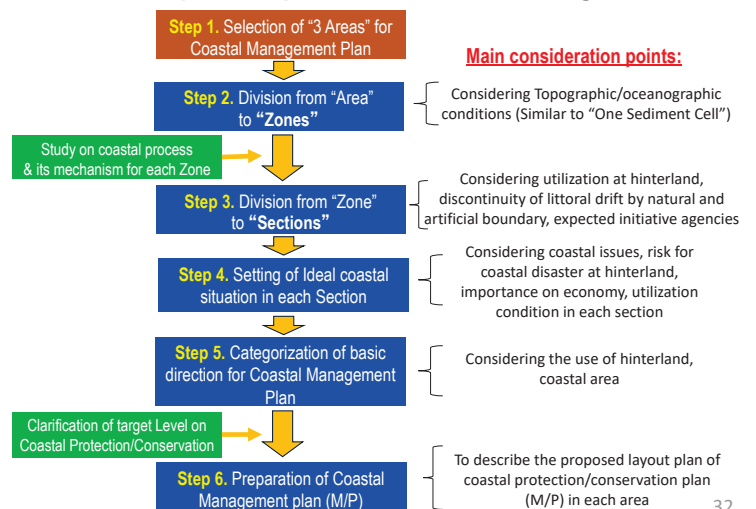
**Legal Form of the Basic Policy for Coastal Management**

	Legal Form	Option of Legal Form for the Basic Policy for Coastal Management
1	Law/ Undang-Undang (UU)	
2	Government Regulation in Lieu of Law/ Peraturan Pemerintah Pengganti Undang – Undang (Prp)	
3	Government Regulation / Peraturan Pemerintah (PP)	<b>Option 1 :</b> Develop new policy under existing law
4	Presidential Decree / Peraturan Presiden (Perpres)	<b>Option 2 :</b> Develop new policy under existing law <b>Option 3 :</b> Integrate the policy into existing policy “Perpres 37 / 2023 about National Water Resource Policy”
5	Ministerial Decree / Kaptusan Menteri Negara (Kepmen)	<b>Option 4 :</b> Develop New Policy by the name of related minister (PUPR, KKP and KLHK) like Japanese coastal management policy.
6	Ordinance / Peraturan Daerah (Perda)	

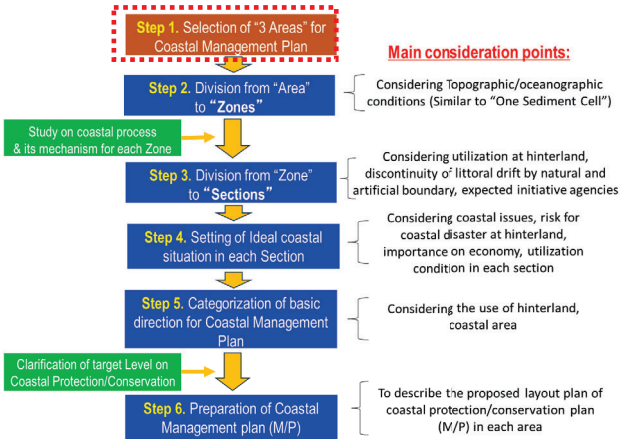
**5. 『Basic Coastal Management Plan』**



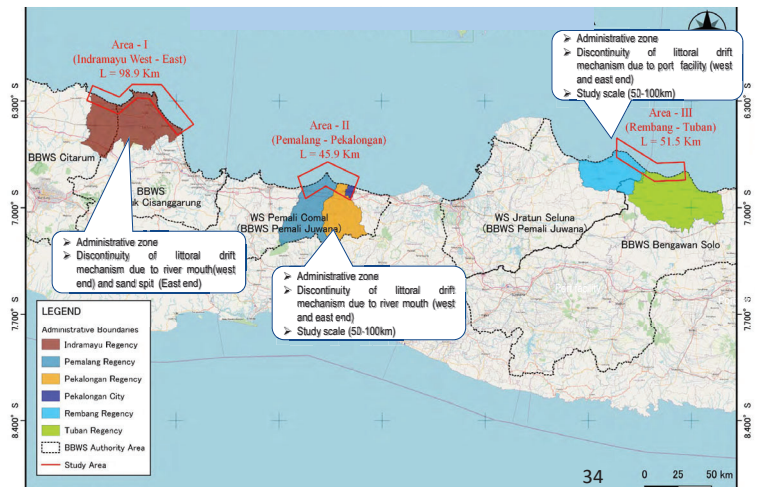
**Procedure Step for Preparation of Coastal Management Plan**



## Step 1. Selection of "3 Areas" for Coastal Management Plan (just remained)

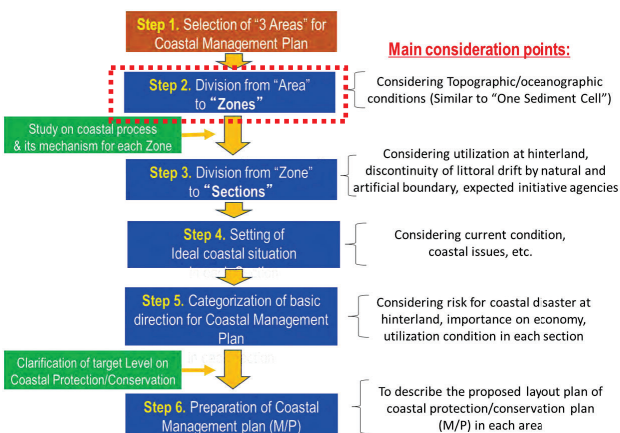


## Selection of "3 Areas" for Coastal Management Plan

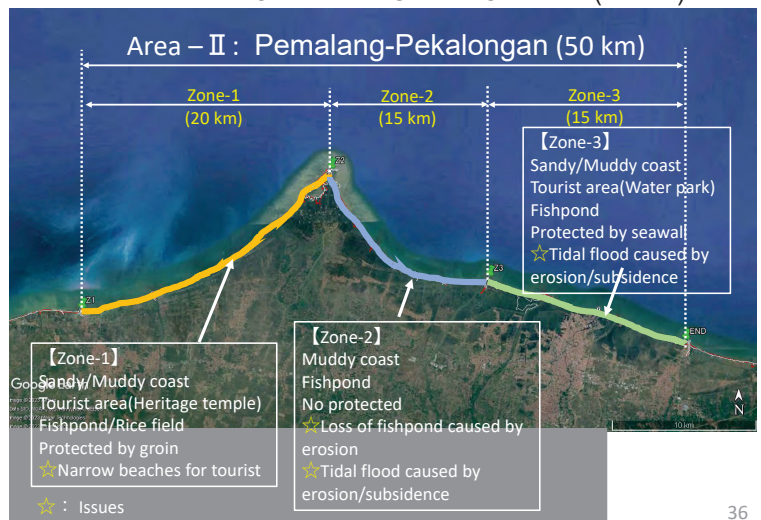


33

## Step 2. Division from "Area" to "Zones" (just remained)



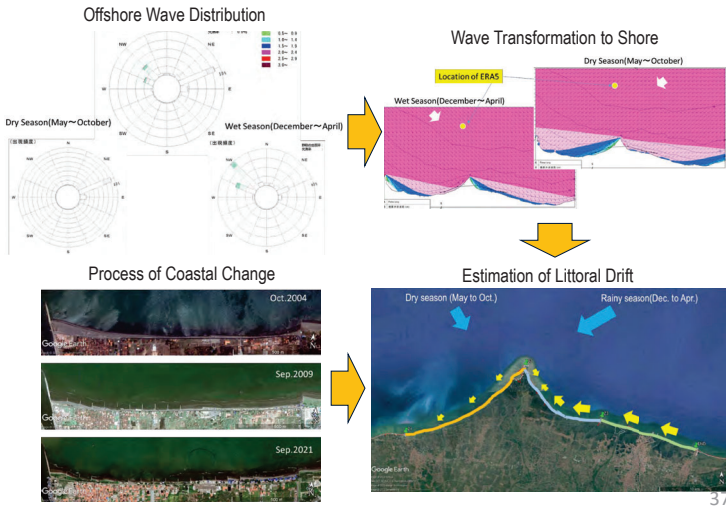
## Zone Division and Overview of Coastal Condition (Area-II)



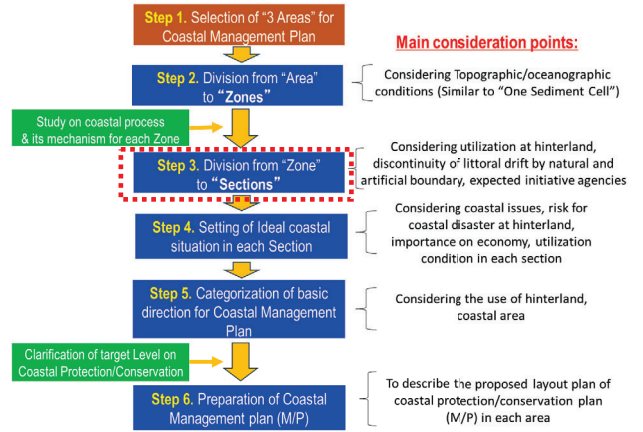
35

36

### Overview of Coastal Mechanism (Area-II)



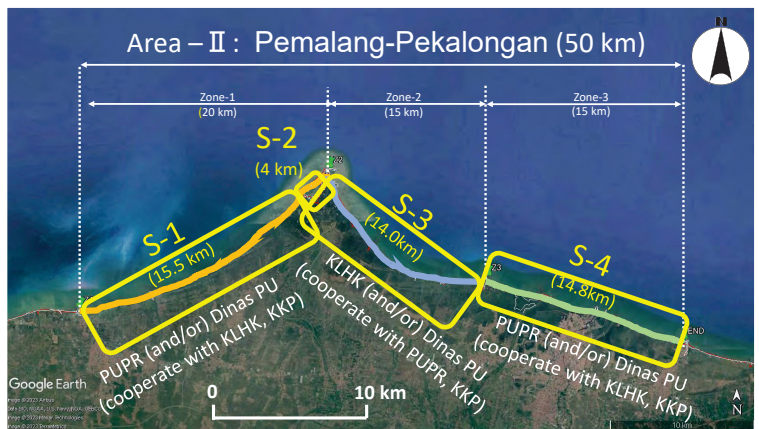
### Step 3. Division from "Zone" to "Sections"



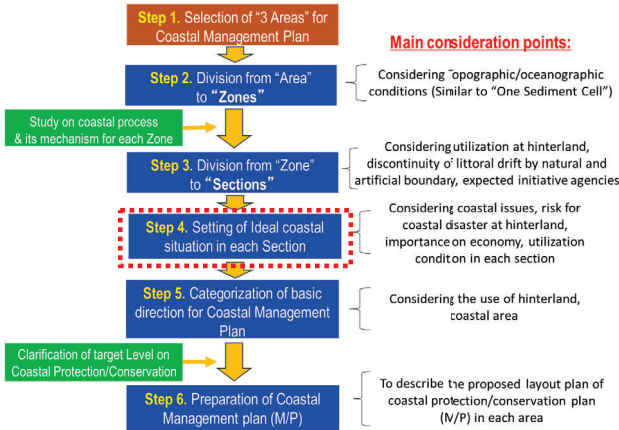
### Idea for Initiative Agencies to prepare Coastal Management Plan

Type of land utilization at hinterland	Agencies who have to mainly consider management plan
Tourism Area (except mangrove eco-tourism)	PUPR, (DINAS PU)
Residential Area	
Agricultural Area (Farm)	
Fishery Port Area	KKP
Agricultural Area (Salt Farm, Fishpond)	
Natural Forest (Mangrove) Protection Area (include mangrove eco-tourism/ Mangrove restoration area in Mangrove Rehabilitation Program)	KLHK
Industrial and/or Commercial Port Area	Private, Pelindo, etc.

### Section Division and Proposed Initiative Agencies to prepare Coastal Management Plan



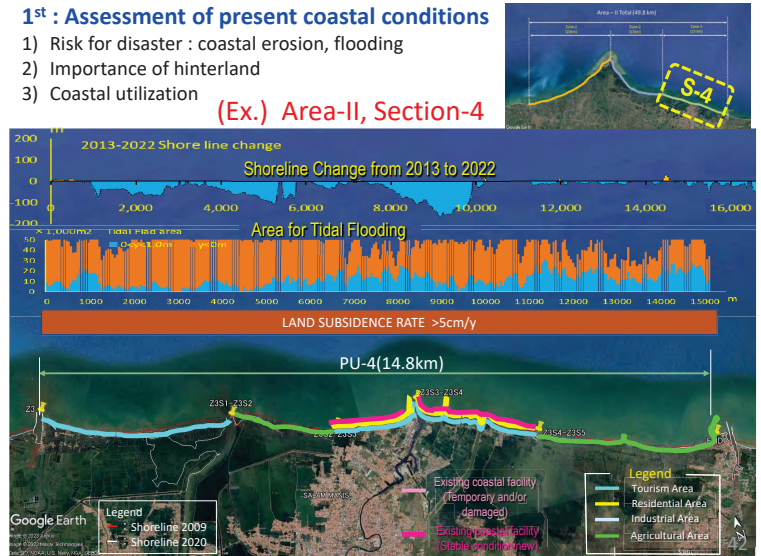
## Step 4. Setting of Ideal Coastal Situation



### 1st : Assessment of present coastal conditions

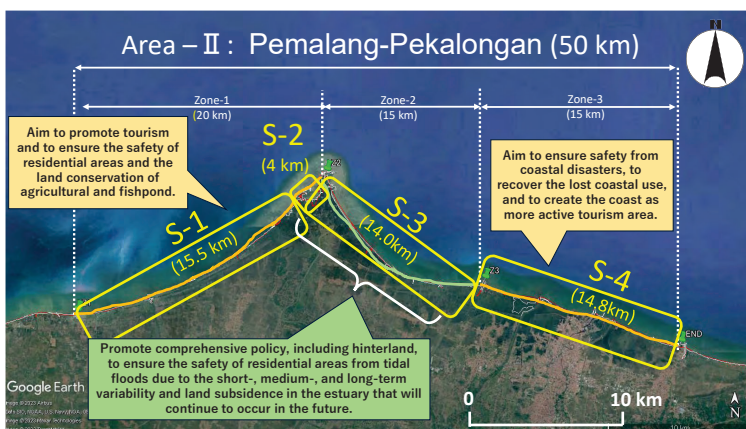
- 1) Risk for disaster : coastal erosion, flooding
- 2) Importance of hinterland
- 3) Coastal utilization

(Ex.) Area-II, Section-4



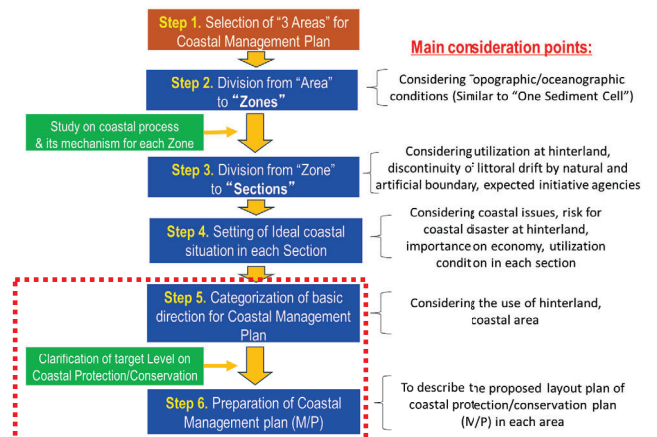
41

## Ideal Coastal Situation (Area-II)



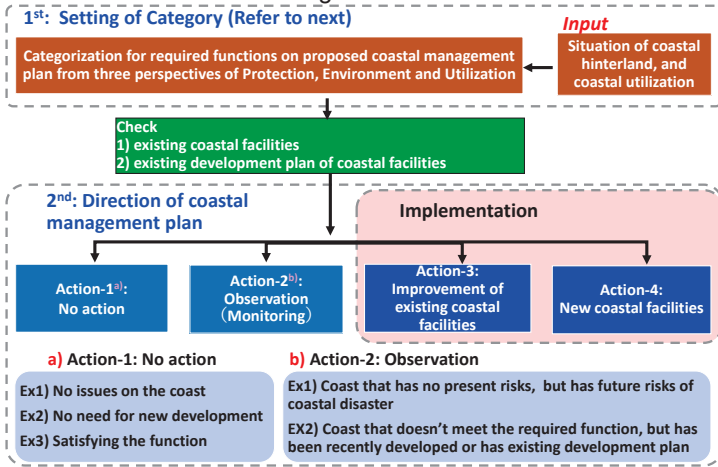
43

## Step 5. Categorization of Basic Direction for Coastal Management Plan



44

### Procedure for Categorization of Basic Direction for Coastal Management Plan



45

### 1<sup>st</sup> : Setting Category for required functions on proposed coastal management plan

✓ Setting four (4) types of Categories to each coast

Category 1	Category 2	Category 3	Category 4
Necessity for "Protection"	Necessity for "Protection" and "Environment"	Necessity for "Protection" and "Utilization"	Necessity for "Protection", "Utilization" and "Environment"

✓ Examine cases where each function is required for each coast.

	Coasts where each function required	Examples
<b>Protection</b>	Coast with high risks of coastal disaster	(ex.) high risk of coastal erosion and/or coastal flooding
<b>Environment</b>	Coast with environmental protection area	-
	Coast with good ecosystem and landscape	(ex.) Coast that requires conservation of sandy beach, mangrove forest, coral reefs
<b>Utilization</b>	Coast with current demand of coastal utilization	(ex.) Coast that is used as local tourism area
	Coast with potential demand of coastal utilization	(ex.) Coast where future coastal demand is anticipated due to the use of the hinterland such as coastal areas of urban area

46

### 1<sup>st</sup> : Setting Category for required functions on proposed coastal management plan

✓ Examples classified in each category

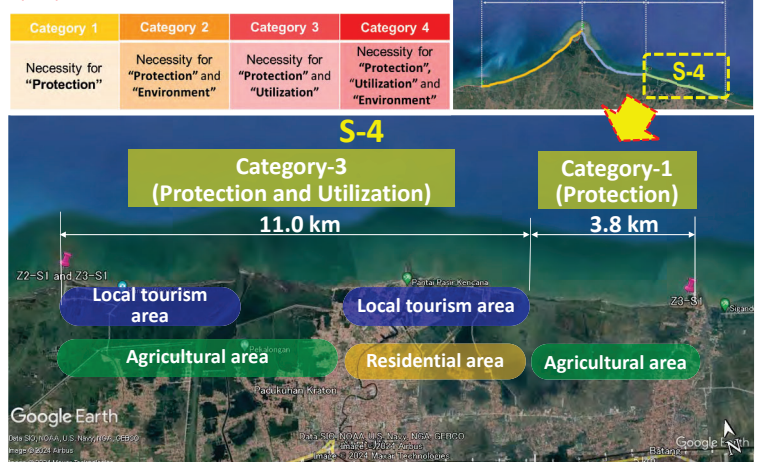
Category is set considering utilization condition of hinterland and coastal area

Category (Required function)	Examples
<b>Category-1 (Protection)</b>	(ex.) Residential area and agricultural area that doesn't necessarily require coastal utilization.
<b>Category-2 (Protection, Environment)</b>	(ex.) Protected area (by KKP, KLHK, local government, etc.)
<b>Category-3 (Protection, Utilization)</b>	(ex.) Residential area that requires coastal utilization, tourism area
<b>Category-4 (Protection, Utilization, and Environment)</b>	(ex.) High-tourism area, Eco-tourism area

47

### 1<sup>st</sup> : Setting of Category

(Ex.) Area-II, Section-4







48

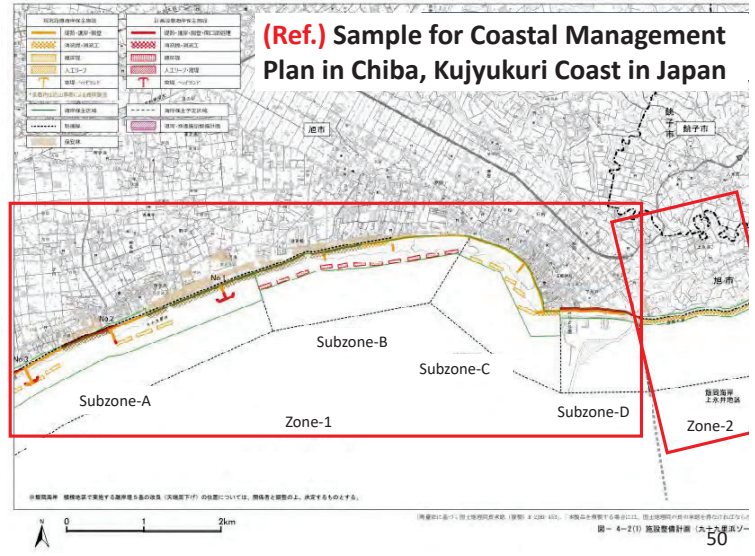
2<sup>nd</sup> : Direction of coastal management plan

Common measures for each Categories

coastal measure	Categories for required functions			
	Cat.1 Protection	Cat.2 Protection Environment	Cat.3 Protection Utilization	Cat.4 Protection Utilization Environment
1 <b>Hard (Structure) measure</b> (Revetment, groin)				
2 <b>Green measure</b> (Mangrove plantation, Coral transplantation)				
3 <b>Soft measure</b> (Beach nourishment)				
4 <b>Combination</b> (hard, soft, green, gray measures)				

1. Hard (Structure)	2. Green measure	3. Soft measure	4. Combination
			



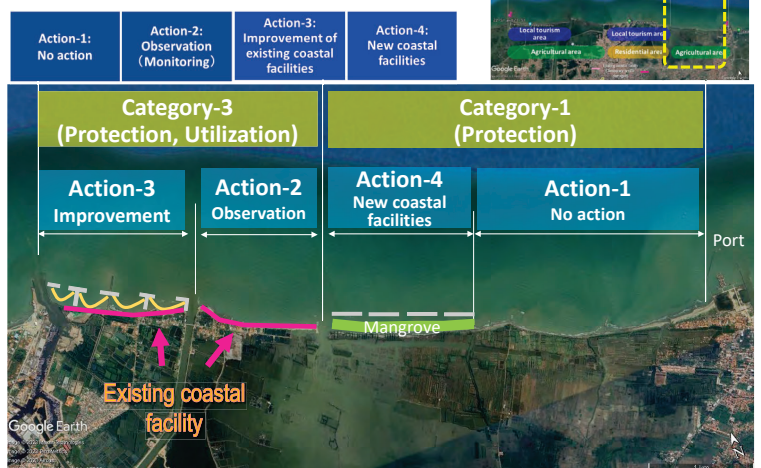
2<sup>nd</sup> : Direction of coastal management plan

(Ex.) Area-II, Section-4 (West side)



2<sup>nd</sup> : Direction of coastal management plan

(Ex.) Area-II, Section-4 (East side)

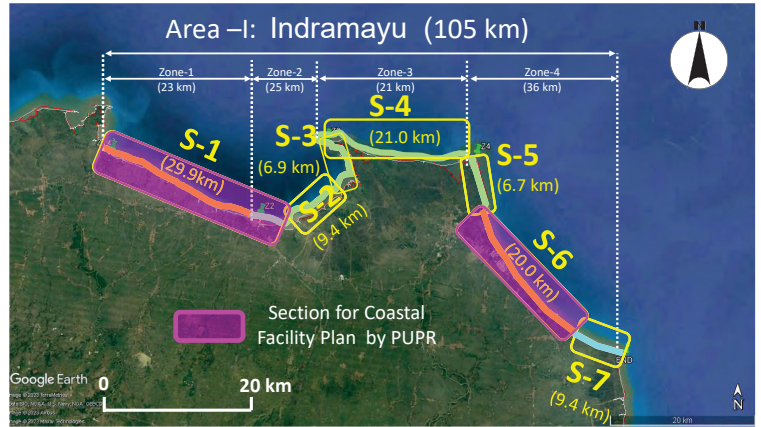


## 6. 『Coastal Facility Plan』



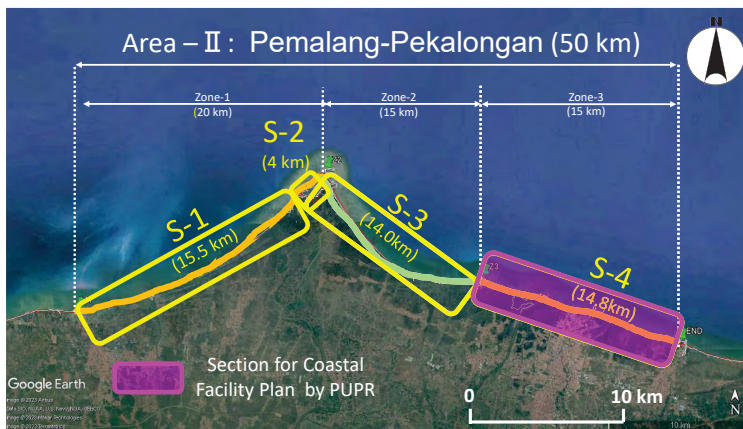
53

Sections for Coastal Facility Plan (Area-I)



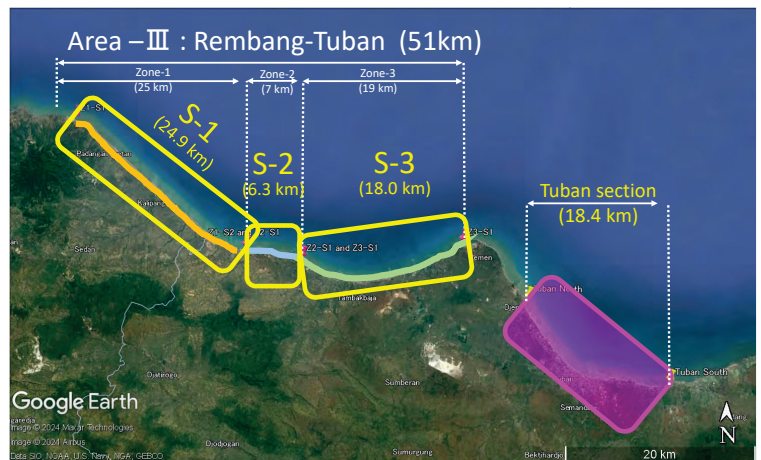
54

Sections for Coastal Facility Plan (Area-II)



55

Sections for Coastal Facility Plan (Additional Tuban Section)



56

Facility Plan Example  
Area-I, S-1a

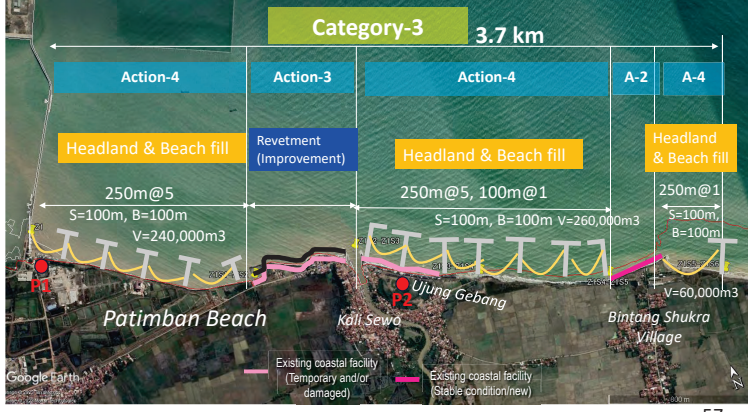


Image of Coastal Measure applying combined Gray & Green Measures (Area-I Section-1a)

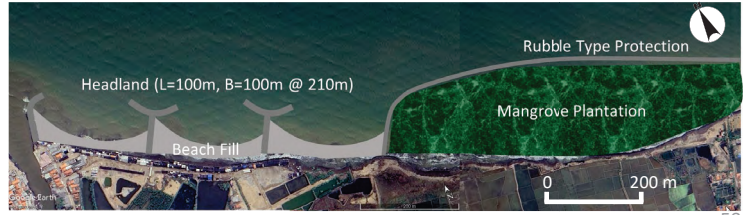
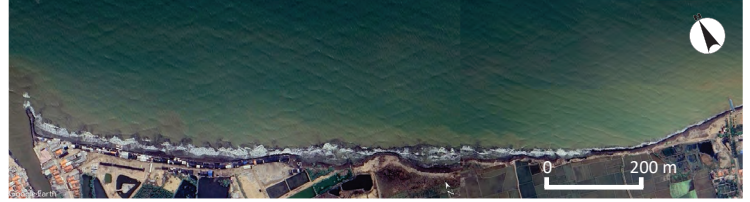


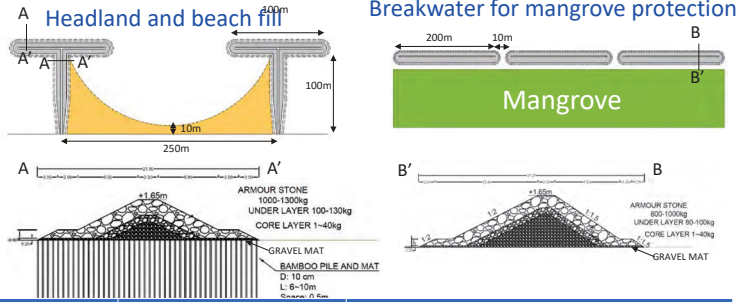
Image of Coastal Measure applying combined Gray & Green Measures (Area-I Section-1a)



Image of Measures applying Amenity-oriented Revetment at Tuban



Design of layout and cross section



Item	Headland	Breakwater for mangrove protection
Slope	Set as 1:2 considering stability of structure and utilization	Set as 1:2 offshore side considering stability Set as 1:1.5 onshore side considering economic efficiency
Crown height	Set as HWL + 1.0 m ※According to Japanese design standard HWL +1.0~1.5m considering subsidence How many meter are estimated for subsidence in North Java case ?	
Subsidence measures	Gravel mat, bamboo mat and bamboo pile is installed	Specific countermeasures is not installed considering economic efficiency.

61

Rough estimate on construction cost  
(still under checking)

Main Quantities for Facility Plan

\* Very preliminary level

	Area-I S-1 Indramayu (West)	Area-I S-6 Indramayu (East)	Area-II Pekalongan	Tuban*	Total
Coastal length protected	10.7 km	7.3 km	8.4 km	16.8 km	45.2 km
Beach Nourishment	560,000 m <sup>3</sup>	600,000 m <sup>3</sup>	560,000 m <sup>3</sup>	1,850,000 m <sup>3</sup>	3,570,000 m <sup>3</sup>
Headlands	11 Nos	15 Nos	11 Nos	22 Nos	59 Nos
	2,328 m	3,000 m	2,344 m	5,200 m	12,872 m
Breakwaters	37 Nos	-	26 Nos	-	63 Nos
	7,410 m	-	5,200 m	-	12,610 m
Mangrove Protection	156 ha	-	109 ha	-	265 ha

62

Rough estimate on construction cost  
(still under checking)

Summary of cost by Target Section in IDR

\* Very preliminary level

Pay Item (category-level)	Area-I S-1 Indramayu (West)	Area-I S-6 Indramayu (East)	Area-II Pekalongan	Tuban*	Total
1 General and Preparatory Works	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	20,000,000,000
2 Health, Safety and Environmental Works	5,000,000,000	5,000,000,000	5,000,000,000	5,000,000,000	20,000,000,000
3 Beach Nourishment	152,320,000,000	163,200,000,000	113,680,000,000	334,850,000,000	764,050,000,000
4 Headland/ Groin Works	131,200,267,200	179,821,338,000	129,446,279,520	241,142,737,000	681,610,621,720
5 Mangrove Protection Works	283,690,271,000	1,035,000,000	146,044,680,000	-	430,769,951,000
Construction Cost (IDR)	577,210,538,200	354,056,338,000	399,170,959,520	585,992,737,000	1,916,430,572,720
<b>Project Cost (IDR) (Estimated as 1.35 times* of the Construction Cost)</b>					<b>2,587,181,000,000*</b>

\* Price escalation: 15%, Consulting Service: 10%, Physical Contingency: 10%

\*Equivalent to:

24,578,000,000 JPY or  
162,992,000 USD

63

7. Technical Transfer & Capacity Development

64

### 1) Training for Bali Beach Conservation Project

- Joint Training on Coastal Conservation Projects between North Java and Maldives Projects by JICA -

◆ **Objective**

1. To see actual coastal conservation measures by applying beach nourishment in order to know the contribution of the coastal measures with harmonizing "Protection", "Utilization" and "Environment"
2. To enhance the understanding of issue on coastal maintenance and management for project beached by applying beach nourishment
3. To understand coastal issues in Indonesia and Maldives
4. To discuss and exchange opinion for above matters in each parties

◆ **Training Period**

➢ Sep. 5– 8, 2023 (4 days) in Bali

◆ **Trainees**

➢ 23 trainees (16 from Indonesia, PUPR, BBWS, KKP, KLHK, BAPPENAS)



### 2) JICA Knowledge Co-Creation Program on titled [Sustainable Coastal Protection Measures at Island Countries]

◆ **Purpose**

- To Learn coastal conservation (planning, implementation and maintenance) by case studies in Japan through site visit and classroom lecture
- Discussion & exchange opinion among government officials regarding coastal conservation.

◆ **Training Period**

➢ Nov. 22– Dec. 15 (about 3 weeks)

◆ **Trainees**

➢ 13 trainees (5 from Indonesia, PUPR (3), KKP(2))



Site Visit

Classroom Lecture

Closing ceremony

## 8. Main Point to be Confirmed

## Main Points to be Confirmed in the JCC

### 1. Confirmation on Obtained Outputs (until Jan. 2024)

Output 1: Draft of Basic Policy for Coastal Management

- JST has already prepared and submitted the draft of Basic Policy for Coastal Management for both English and Indonesian versions and idea for legalization based on the discussions through the Working Group (hereinafter referred to as W/G)

Output 2: Draft of "Basic Coastal Management Plan"

- Three areas were selected as target area for developing the draft of basic coastal management plan, which are Area I: Indramayu (about 100 km coastal length), Area II: Pemalang - Pekalongan (about 46 km) and Area III: Rembang – Tuban (52 km) and agreed with JCC members in the 1<sup>st</sup> JCC.
- JST has prepared and presented the basic procedure for preparation of the Basic Coastal Management Plan, which is expected to be prepared by the Government of Indonesia (hereinafter referred to as "GOI") extensively, following this Projects.
- JST has prepared and presented the recommended Basic Coastal Management Plan for selected three areas, considering coastal physical characteristics, current condition and urgency, utilization of coastal area and hinterland, etc. as the case study.
- Also, the required structures and action for issuing of the Basic Coastal Management Plan has been discussed through W/G based on the basic idea prepared by JST.

## Main Points to be Confirmed in the JCC

### 1. Confirmation on Obtained Outputs (until Jan. 2024)

#### Output 3: Coastal Facility Plan at Selected Sections

- Three sections (2 sections in Area I and 1 section in Area II) were selected as study area for preparation of coastal facility plan through the Close Group Discussions (CGD).
- Both parties (PUPR and JICA) were agreed to add one more section at neighboring coastal area in Area III with about 18 km, taking into account strong request from the PUPR and importance on protection at this coast (refer to Attachment).
- JST has prepared and presented the recommended Coastal Facility Plan for selected four sections and continued to discuss with PUPR about the contents of proposed measures as well as prioritization of each section, construction cost and formulation as loan project.

#### Output 4: Technical Transfer / Capacity Development

- Understanding of the idea and procedure for coastal management system for the members of W/G based on those in Japan has been enhanced through several opportunities of discussions in W/G and CGD.
- Understanding of coastal protection measures with harmonizing environment and utilization, and management issues afterward has been enhanced by the training program of coastal conservation project in Bali Island (BBCP1 & 2) and JICA Knowledge Co-Creation Program on Sustainable Coastal Protection Measures in Japan

69

## Main Points to be Confirmed in the JCC

### 1. Further Required Actions by end of the Project (June 2024)

#### Basic Policy for Coastal Management

- The W/G members in Indonesia shall continue to discuss for the finalization of contents of Basic Policy for Coastal Management and submission to the Perpres based on the proposed idea by JST. Finalized basic policy is expected to be submitted to Perpres by the end of 2025.
- JST will continue to support above actions as required by the end of the Project.

#### Basic Coastal Management Plan

- The W/G members in Indonesia shall review and provide their comments for the draft of basic coastal management plan at three sites recommended by the JST for finalization. The JST shall update/revise the draft of basic coastal management plan at three areas based on the comment from the W/G members by the End of the Project.
- The W/G members in Indonesia shall prepare the roadmap to roll up the preparation of Basic Coastal Management Plan to other main islands (as stated in the draft of Basic Policy for Coastal Management) in Indonesia.

70

## Main Points to be Confirmed in the JCC

### 1. Further Required Actions by end of the Project (June 2024)

#### Coastal Facility Plan at Selected Sections

- PUPR (including each BBWS in the target sites) shall provide further information regarding unit price of construction item for coastal facilities, procurement of construction materials such as sand, rock, etc. and review the draft of construction cost prepared by JST. JST shall continue to update the prepared coastal facility plan based on such information.
- As a part of technical transfer, PUPR will arrange and conduct stakeholder meeting to exchange opinion for the Coastal Facility Plan at selected three locations with relevant stakeholders, which will be conducted on January and February 2024 (refer to Attachment).
- PUPR will take necessary actions for the formulation of coastal protection project on the north coast of Java Island as loan project based on the prepared coastal facility plan.

#### Others

- GOI shall reflect the contents proposed in the Project (refer to Attachment) into RPJMN (2025 – 2029) to establish and develop the sustainable coastal management system to achieve the mid- and long-term coastal protection/conservation with harmonizing environment and utilization. This procedure shall be done by GOI, cooperating with related stakeholders taking into account the condition of coastal development.

71

### **Schedule for Stakeholder Meeting for Area-1(Indramayu), Area-2(Pekalongan) and Additional Tuban Area**

72

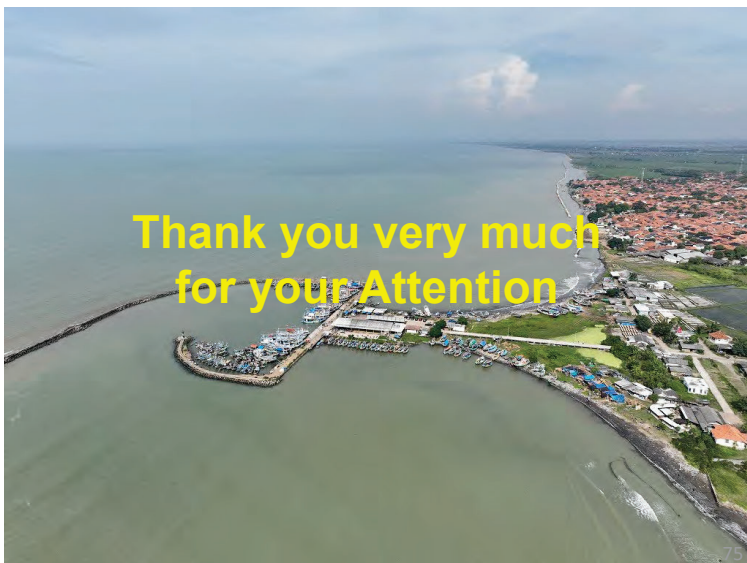
## Policy for the 2<sup>nd</sup> SHM (Stakeholder Meeting)

<b>Purpose</b>	To explain and discuss the following to the local stakeholders: 1) the results of the 1 <sup>st</sup> SHM and FGD, 2) draft of the <b>Coastal Facility Plan</b> in priority areas, and 3) alternative plans (how the plan has been chosen among options).
<b>SHM sites</b>	Site 1: Cirebon @Area - I : Indramayu Site 2: Semarang @Area - II : Pemalang-Pekalongan Site 3: Tuban @ Additional area: Tuban
<b>Participants</b>	Site 1: Local governments of BBWS Cimanuk Cisanggarung Site 2: Local governments of BBWS Pemali Juana Site 3: Local Governments of BBWS Bengawan Solo
<b>When</b>	Site 1: January 31 (Wednesday) in Cirebon (plan for Indramayu ) Site 2: February 1 (Thursday) at in Semarang (plan for Pekalongan ) Site 3: February 2 (Friday) in Solo/Tuban
<b>Host (Facilitator)</b>	PUPR/BBWS

※FGD: Focus Group Discussion

## Participants: Local Governments

Location	Local Government
Cirebon	BBWS Cimanuk Cisanggarung
Indramayu Regency	- Bappeda Indramayu Regency - DLHK Indramayu Regency - Dinas PUPR Indramayu Regency - Department of Marine and Fishery in Indramayu Regency
Semarang	BBWS Pemali Juana
Pekalongan City	- Bappeda Kota Pekalongan - DLHK Kota Pekalongan - Dinas PUPR Kota Pekalongan - Department of Marine and Fishery in Pekalongan City
Pemalang Regency	- Bappeda Pemalang Regency - DLHK Pemalang Regency - Dinas PUPR Pemalang Regency - Department of Marine and Fishery in Pemalang Regency



**MINUTES OF MEETING  
ON  
THE THIRD JOINT COORDINATING COMMITTEE MEETING  
FOR  
PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN STUDY  
ON THE NORTH JAVA ISLAND  
IN  
THE REPUBLIC OF INDONESIA**

**AGREED UPON BETWEEN**

**AUTHORITIES CONCERNED IN INDONESIA  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)  
AND  
PROJECT TEAM OF JAPAN INTERNATIONAL COOPERATION AGENCY  
(JICA STUDY TEAM)**

Jakarta, June 11, 2024



Mr. Nozomu ONO  
Senior Representative  
JICA Indonesia Office  
Japan International Cooperation Agency



Dr. Dwi Purwanto, S.T., M.T.  
Director of River and Coasts, DWGR  
Project Manager of the Project



Mr. Susumu ONAKA  
Team Leader/Coastal Disaster Risk Reduction Plan  
Study JICA Study Team

In response to the official request submitted by the Indonesian Government, the Record of Discussion (hereinafter referred to as "R/D") on PROJECT FOR COASTAL DISASTER RISK REDUCTION PLAN STUDY ON THE NORTH COAST OF JAVA ISLAND (hereinafter referred to as "the Project") was signed on March 31, 2022 between the Indonesian Side (Ministry of Public Works and Housing, hereinafter referred to as "PUPR") and Japan International Cooperation Agency (hereinafter referred to as "JICA") (collectively hereinafter referred to as "Both Parties"). Based on the R/D, the Project commenced on June 17, 2022. In accordance with the Implementation Schedule of the Project, the third Joint Coordinating Committee (hereinafter referred to as "3<sup>rd</sup>JCC") was held on June 11, 2024 and had a series of discussions for obtained outputs by the JICA Study Team (hereinafter referred to as "JST") until this period and further required actions after the Project. The meeting had presentation from JST on 1) Confirmation on Obtained Outputs through the Project and 2) Further Required Actions after the Project.

In the course of discussions, all the participants confirmed the main items on the 3<sup>rd</sup> JCC given in Appendix 1.

Appendix 1: Main Points Confirmed

## Appendix 1

### Main Points Confirmed

#### 1. Confirmation on Obtained Outputs

##### Output 1: Draft of Basic Policy for Coastal Management

- JST has already prepared and submitted the draft of Basic Policy for Coastal Management for both English and Indonesian versions and idea for legalization based on the discussions through the Working Group (hereinafter referred to as W/G)

##### Output 2: Draft of “Basic Coastal Management Plan”

- Three areas were selected as target area for developing the draft of basic coastal management plan, which are Area I: Indramayu (about 100 km coastal length), Area II: Pematang - Pekalongan (about 46 km) and Area III: Rembang – Tuban (52 km) and agreed with JCC members in the 1<sup>st</sup> JCC.
- JST has prepared and presented the basic procedure for preparation of the Basic Coastal Management Plan, which is expected to be finalized by the Government of Indonesia (hereinafter referred to as “GOI”) extensively, following this Projects.
- JST has prepared and presented the recommended Basic Coastal Management Plan for selected three areas, considering coastal physical characteristics, current condition and urgency, utilization of coastal area and hinterland, etc. as the case study.
- Also, the required structures and action for issuing of the Basic Coastal Management Plan has been discussed through W/G based on the basic idea prepared by JST.

##### Output 3: Coastal Facility Plan at Selected Sections

- Three sections (2 sections in Area I and 1 section in Area II) were selected as study area for preparation of coastal facility plan through the Close Group Discussions (CGD).
- Both parties (PUPR and JICA) agreed to add one more section at neighboring coastal area in Area III, Tuban with about 18 km, taking into account strong request from the PUPR and importance on protection at this coast.
- JST has prepared and presented the recommended Coastal Facility Plan for selected four sections and discussed with PUPR about the contents of proposed measures as well as construction cost, economic analysis and formulation as loan project.

#### Output 4: Technical Transfer / Capacity Development

- Understanding of the idea and procedure for coastal management system for the members of W/G based on those in Japan has been enhanced through several opportunities of discussions in W/G and CGD.
- Understanding of coastal protection measures with harmonizing environment and utilization, and management issues afterward has been enhanced by the training program of coastal conservation project in Bali Island (BBCP1 & 2) and JICA Knowledge Co-Creation Program on Sustainable Coastal Protection Measures in Japan

#### Output (Additional): Preliminary Study at Sayung Area in Demak

- Preliminary Study at Sayung Area in Demak was conducted following the amended R/D (signed by both parties on 17 February 2023). The study result was presented as the part of final report.

## **2. Remaining Issues and Further Required Actions after the Project**

#### Basic Policy for Coastal Management

- Indonesian side shall continue to discuss for finalization of the contents of “Basic Policy for Coastal Management” and its legislation with relevant agencies based on the proposed idea by JST. Indonesian side shall finalize the academic transcript (as draft zero) and action plan toward the legislation, and share them with JICA by September 2024.
- The JCC members of Indonesia agreed to take concrete action following the action plan for legislation that is expected to be effective on December 2026.

#### Basic Coastal Management Plan

- The JCC members of Indonesia shall continue to review and provide their comments for the draft of “Basic Coastal Management Plan” at three areas, which were recommended by the JST, for finalization. The comments shall be shared with JICA by September 2024 to refer to further coordination for formulation of loan project.
- Procedure for enactment of prepared basic plan shall be discussed with the JCC members and the timeline toward the enactment shall be prepared by September 2024. Basic Coastal Management Plan at the three selected priority areas are expected to be effective on December 2026.
- The JCC members of Indonesia agreed to prepare the roadmap to roll up the preparation of “Basic Coastal Management Plan” to other area of north of Java Island and other main islands as mandated in the draft of “Basic Policy for Coastal Management”

### Coastal Facility Plan at Selected Sections

- PUPR agreed that the coastal protection projects is expected to start from 2026 based on the proposed “Coastal Facility Plan” with harmonizing protection, environment and utilization.
- PUPR agreed to take action to establish implementation structure for green- and gray- infrastructure measures, coordinating with relevant agencies, especially with KKP, KLHK and Provincial Governments.
- PUPR, BAPPENAS and JICA basically agreed to start coordination to formulate coastal protection project of north coast of Java Island as Japanese loan project.

### Others

- GOI shall reflect the contents proposed in the Project into RPJMN (2025 – 2029) to establish and develop the sustainable coastal management system to achieve the mid- and long-term coastal protection/conservation with harmonizing environment and utilization.

(End of document)

### **Attachment:**

- (a) Attendance List
- (b) Presentation Materials of 3<sup>rd</sup> JCC

**Attachment (a): Attendance List:**

No	Name	Institutions/ Division	Position	Remarks
<b>BAPPENAS (MINISTRY of NATIONAL DEVELOPMENT PLANNING)</b>				
1	Mohammad Irfan Saleh	Directorate of Water Resources, BAPPENAS	Director of Water Resources	Offline
2	Cintya MMS	Directorate of Water Resources, BAPPENAS	Staff	Offline
3	Siti Amira	Directorate of Water Resources, BAPPENAS	Staff	Offline
4	Kevin R.J Pantaow	Directorate of Water Resources, BAPPENAS	Staff	Offline
<b>KLHK (MINISTRY of ENVIRONMENT and FORESTRY)</b>				
5	Dimas Baskoro	Directorate of Regional and Sectoral Policy of Environmental Impact Prevention, KLHK	Staff	Online
<b>KKP (MINISRTY of MARINE AFFAIRS and FISHERIES)</b>				
6	Fina Ardarini	Ministry of Marine Affairs & Fisheries	Staff	Offline
7	Bagus A	Ministry of Marine Affairs & Fisheries	Staff	Offline
<b>ATR / BPN REGION I (MINISTRY of AGRARIAN AFFAIRS and SPATIAL PLANNING)</b>				
8	Jerry Deta P	ATR/BPN Region I, Ministry of Agrarian Affairs and Spatial Planning	Sub-Directorate	Offline
9	Lutfi Arianto	ATR/BPN Region I, Ministry of Agrarian Affairs and Spatial Planning	Staff	Offline
<b>PUPR-DIRECTORATE GENERAL of WATER RESOURCES</b>				
10	Ari Setyorini	Directorate of Water Resources Management System and Strategy, PUPR	Head of Foreign Loans and Grants Management Subdirectorates	Online
11	Handayani Lestari	Directorate of Water Resources Management System and Strategy, PUPR	Staff	Offline
12	Leo Eliasta	Directorate of Rivers and Coast, PUPR	Head of River and Coast Technical Planning Subdirectorates	Offline
13	Anggun Etika P.	Directorate of Rivers and Coast, PUPR	Staff	Offline
14	Nimas Ayu	Directorate of Rivers and Coast, PUPR	Staff	Online
15	Paula Swastika	Directorate of Rivers and Coast, PUPR	Staff	Offline
16	Nadia Salsabila	Directorate of Rivers and Coast, PUPR	Staff	online
17	Jonathan Sebastian E. H.	Directorate of Rivers and Coast, PUPR	Staff	online
18	Mukhlis Arief Irvandi	Directorate of Rivers and Coast, PUPR	Staff	Offline
19	Hatta Putra	Directorate of Rivers and Coast, PUPR	Staff	Online
20	Farhan Putra Riyadi	Directorate of Rivers and Coast, PUPR	Staff	Online
21	Anthony Harlly Sasono	Directorate of Rivers and Coast, PUPR	Staff	Online
22	Tonigar Murizwa	Directorate of Rivers and Coast, PUPR	Staff	Online

23	Sudarto	Directorate of Rivers and Coast, PUPR	Head of Coastal Engineering Agency	Offline
24	Irham Adrie Hakiki	Balai Teknik Pantai	Staff	Offline
25	Heri Suherlan	BBWS Citarum	Staff	Online
26	Adi Budi	BBWS Cimanuk Cisanggarung	Staff	Offline
27	Dwi Agus	BBWS Cimanuk Cisanggarung	Staff	Offline
28	Tri Wijayanto	BBWS Cimanuk Cisanggarung	Staff	Offline
29	Heni Krisyani	BBWS Pemali Juana	Staff	Online
30	L. Ardian	BBWS Pemali Juana	Staff	Offline
31	Winda	BBWS Bengawan Solo	Staff	Offline
32	Adiel Putra	BBWS Bengawan Solo	Staff	Offline
<b>JICA (Japan International Cooperation Agency)</b>				
33	Mr. Nozomu Ono	JICA Indonesian Office	Senior Representative	Offline
34	Ms. Kashihara	JICA Indonesia Office	Representative	Offline
35	Ms. Hastin Dian	JICA Indonesian Office	Program Officer	Offline
36	Mr. Hidenori Hashimoto	JICA HQ	Senior Deputy Director	Offline
37	Mr. Issei Hamana	JICA HQ	Officer	Offline
38	Mr. Eiji Otsuki	JICA HQ	Senior Advisor	Online
39	Mr. Keisuke Minami	JICA HQ	Officer	
40	Ms. Dyas Aryanti Karlina	JICA Expert	Technical Assistant on Integrated Water Resources Management	Offline
<b>JICA STUDY TEAM</b>				
41	Mr. Onaka	JICA Study Team	Team Leader	Offline
42	Mr. Ichikawa	JICA Study Team	Deputy Team Leader	Offline
43	Mr. Endo	JICA Study Team	Coastal Conservation-Development	Offline
44	Mr. Takagi	JICA Study Team	Flood Analysis	Offline
45	Mr. Yonekura	JICA Study Team	Integrated Coastal Zone Management (ICZM) River & Sediment Management	Online
46	Mr. Mori	JICA Study Team	Facility Design/Coast Estimate & Construction Planning	Offline
47	Mr. Takao	JICA Study Team	Facility Design/Coast Estimate & Construction Planning	Online
48	Mr. Higashiguchi	JICA Study Team	Organizational & Legal System/Social Practise Survey	Offline
49	Mr. Miyagawa	JICA Study Team	Marine & Coastal Survey	Offline
50	Mr. Murakami	JICA Study Team	Economy Effectiveness/Evaluation Analysis	Online
51	Mr. Azka	JICA Study Team	Local Engineer	Offline
52	Ms. Tasya Putri	JICA Study Team	Project Support	Offline
53	Ms. Yohana	JICA Study Team	Project Secretary	Offline



# 3<sup>rd</sup> (Final) Meeting of Joint Coordination Committee (JCC)

2024. 6.11

JICA Study Team

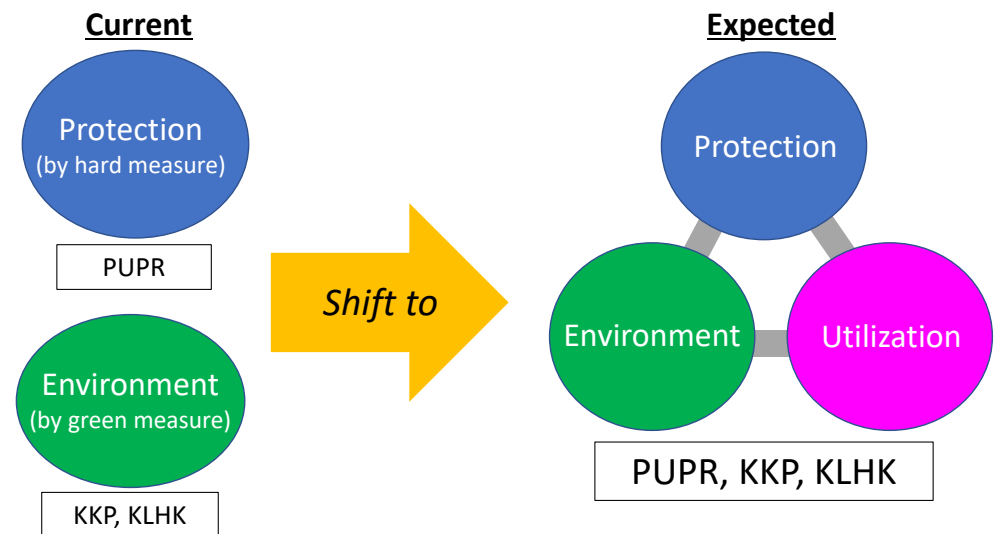
## Contents

1. Overview of the Project
  - Obtained Output in the Project -
2. Selection of Three Priority Areas
3. Basic Policy for Coastal Management
4. Basic Coastal Management Plan for Selected 3 Areas
5. Coastal Facility Plan for Selected 4 Sections
6. Technical Transfer & Capacity Development
  - Summary of the Project -
7. Project Evaluation & Remaining Subjects
8. Recommended Roadmap  
(for Implementation of Proposed Coastal Facility Plan)
9. Confirmation for Draft of Statements of MoM

2

## 1. Overview of the Project

### Expected Goal for Coastal Management in Indonesia



*Individually*

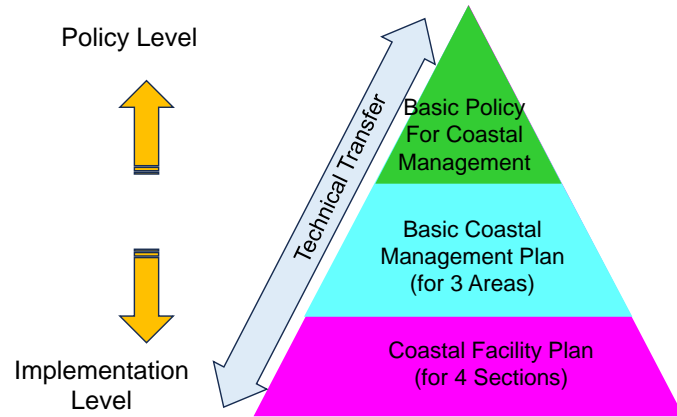
- ◆ Coastal Management based on same unified policy & Plan
- ◆ Multi-sectoral implementation

3

4

## Output Image of the Project

1. **(Draft) Basic Policy for Coastal Management**
2. **(Draft) Basic Coastal Management Plan** at 3 priority areas
3. **Coastal Facility Plan** as Pre-F/S level at 4 sections



5

## 2. Selection of 3 Priority Areas

Selection of 3 priority areas (*as pilot study area*)

Preparation of Draft of **Basic Policy for Coastal Management**

- ◆ To prepare basic policy of coastal conservation and management
- ◆ To prepare basic procedure for preparation of Basic coastal management plan to apply for other areas

Preparation of Draft of **Basic Coastal Management Plan**

- ◆ To prepare basic plan of integrated coastal conservation/protection as middle-term plan *for Selected 3 Sites*

Preparation of **Coastal Facility Plan**

- ◆ To propose coastal facility plan (pre-F/S level) *for Selected 4 Sections* (including additional section in Tuban )

6

## Overview of Coastal Characteristics at 3 Areas



7

## 3. Basic Policy for Coastal Management

Selection of 3 priority areas (*as pilot study area*)

Preparation of Draft of **Basic Policy for Coastal Management**

- ◆ To prepare basic policy of coastal conservation and management
- ◆ To prepare basic procedure for preparation of Basic coastal management plan to apply for other areas

Preparation of Draft of **Basic Coastal Management Plan**

- ◆ To prepare basic plan of integrated coastal conservation/protection as middle-term plan *for Selected 3 Sites*

Preparation of **Coastal Facility Plan**

- ◆ To propose coastal facility plan (pre-F/S level) *for Selected 4 Sections* (including additional section in Tuban )

8

# Table of Contents of Basic Policy in Indonesia

## I. Objective of “Basic Policy for Coastal Management”

## II. Definition and Basic Role on “Basic Coastal Management Plan”

### Clause 1 Basic Guidelines for Coastal Management

- 1 Basic philosophy of coastal management
- 2 Direction of coastal management
- 3 Direction of implementation of coastal facilities
  - 3.1 Direction on new implementation or improvement of coastal protection/conservation facilities
  - 3.2 Direction on maintenance or repair of coastal protection/conservation facilities
- 4 Other considerations on coastal management
  - 4.1 Promotion of initiatives from a broad and comprehensive perspective
  - 4.2 Promotion of cooperation with local communities and raising awareness of coastal conservation
  - 4.3 Promotion of research, studies and monitoring

### Clause 2 Division of Area for Preparation of Basic Coastal Management Plan

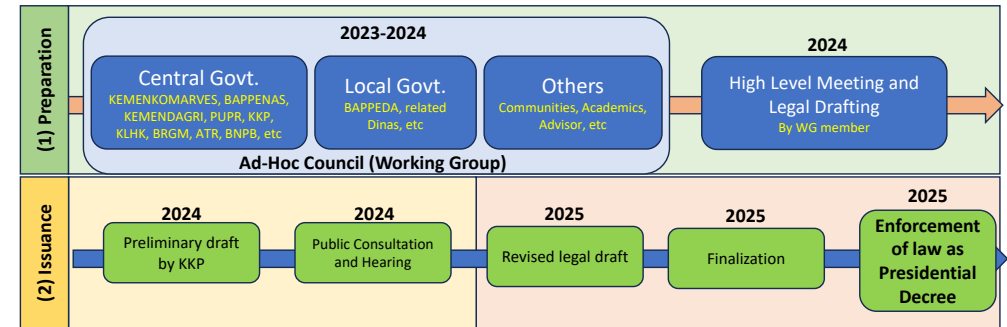
### Clause 3 Basic Items for Preparation of the Basic Coastal Management Plan

- 3.1 Basic items to be included into the Basic Coastal Management Plan
  - (a) Basic items concerning Coastal Management
  - (b) Basic items concerning implementation of Coastal Facilities
- 3.2 Important items to be considered into the Basic Coastal Management Plan
  - (a) Insurance of consistency with relevant development plans
  - (b) Cooperation and coordination with relevant administrative agencies
  - (c) Participation of residents and information disclosure
  - (d) Review of plan and revision properly

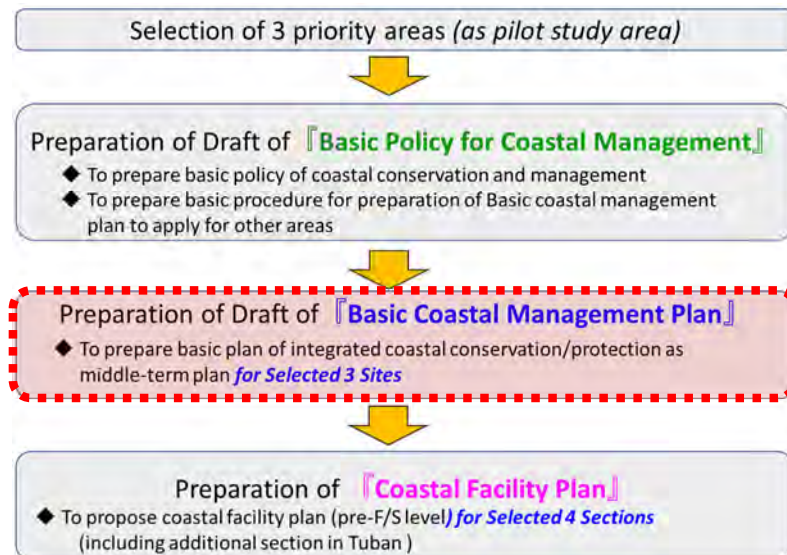
# Draft of Roadmap for Legislation of Basic Policy

Following second JCC that was held on 19 January 2024, Government of Indonesia counterpart on this study conducted internal discussion regarding **Legal framework for Basic Policy of Coastal Management** at 6 June 2024, which was held by BAPPENAS. The conclusion of the discussion is as follows:

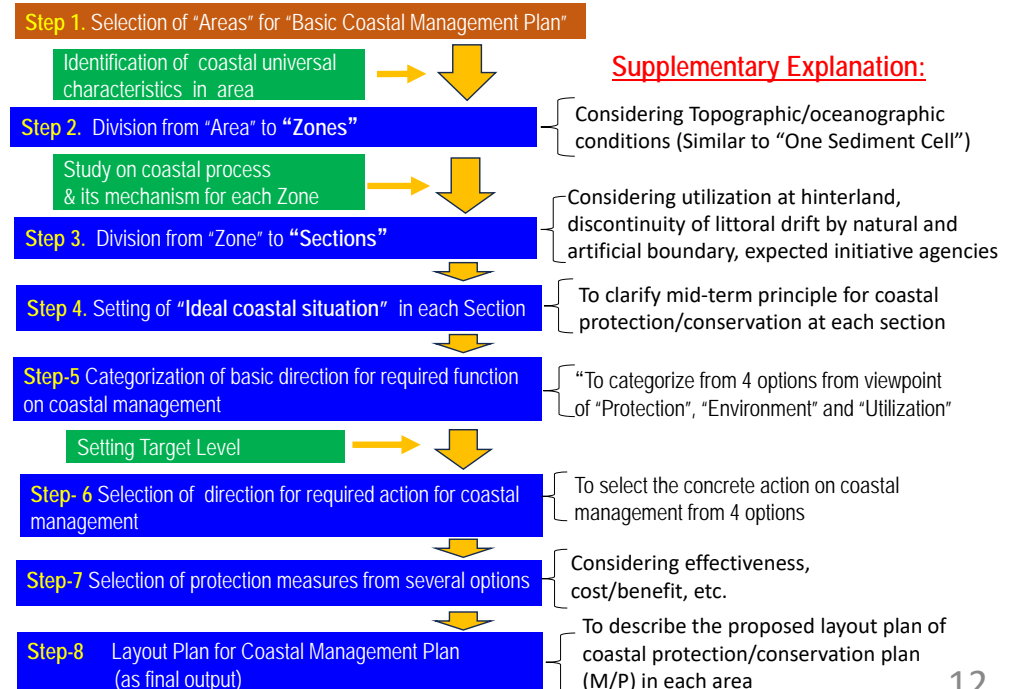
1. Basic Policy for Coastal Management are proposed to be legalized in form of **Presidential Decree** (ID: Peraturan Presiden), Presidential Instruction (ID: Instruksi Presiden), or equal
2. **Kementerian Kelautan dan Perikanan, KKP** (Ministry of Maritime Affairs and Fisheries), will lead its legislation process with help and support from other WG members. It is planned to **conduct high level meeting between each ministries** to formulate said legal draft



# 4. 『Basic Coastal Management Plan』



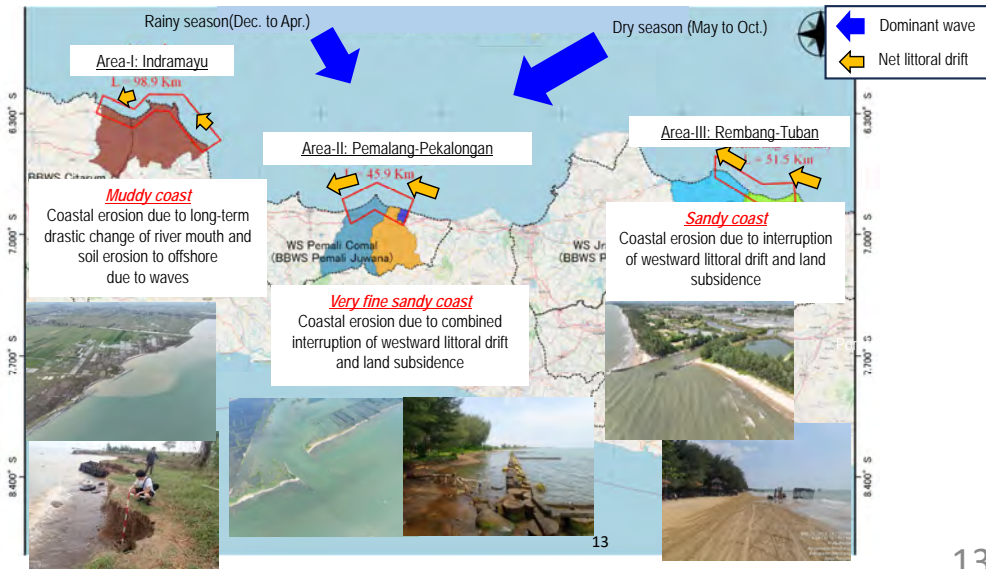
# Proposed Procedure how to prepare “Basic Plan”



### Step 1. Selection of "Areas" for "Basic Coastal Management Plan"

#### Considerations:

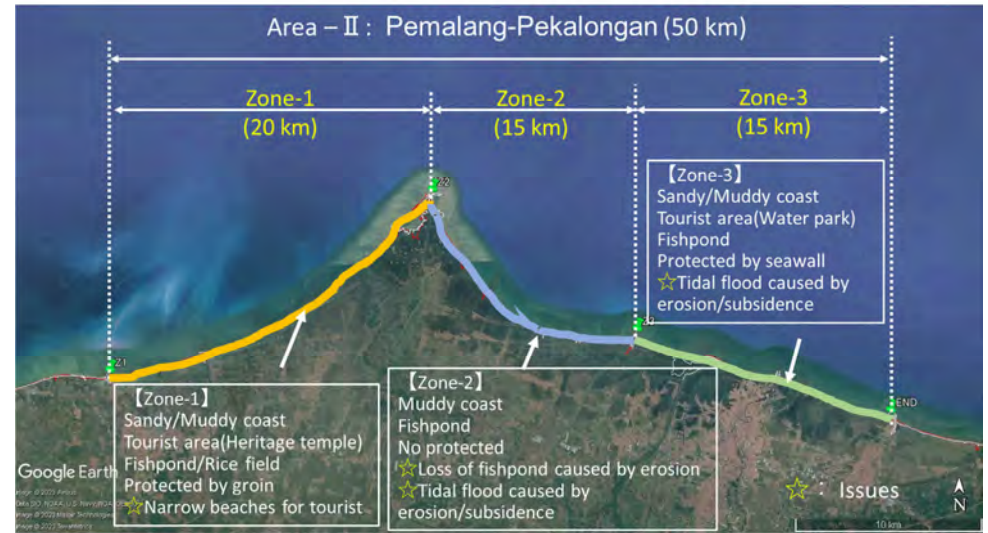
- 1) Boundary between administrative (Province, Regency, City, etc.)
- 2) Continuity of littoral drift,
- 3) Appropriate scale (50-100 km for one area)



13

### Step 2. Division from "Area" to "Zones"

"Area" is divided into "Zone," based on direction of shoreline angle to reflect the topographic/oceanographic conditions (Similar to "One Sediment Cell")



14

### Step 3. Division from "Zone" to "Sections"

"Zone" is divided into "Section" based on utilization at hinterland, discontinuity of littoral drift by natural and artificial boundary, to consider initiative agencies, and one segment for coastal management.

Agencies mainly tasked with management plan	Type of land utilization at hinterland
PUPR, (DINAS PU)	① Tourism area, ② Residential area, ③ Algaculture area (farm)
KKP	① Fishery port area, ② Agricultural area (salt farm, fishpond)
KLHK	① Natural forest protection area, ② Mangrove restoration area
Private, Pelindo, etc.	① Industrial and/or commercial port area

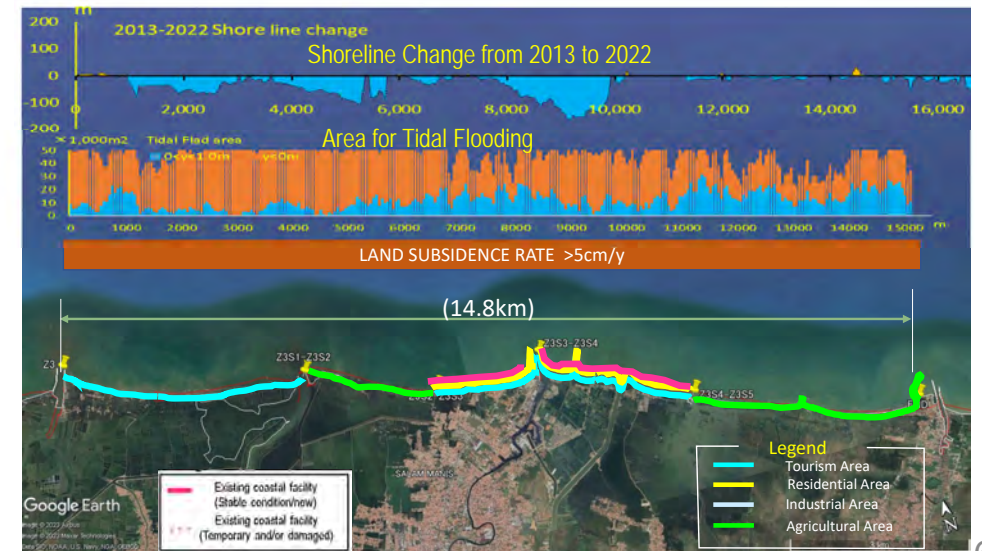


15

### Step 4. Setting of Ideal coastal situation in each Section

To clarify mid-term principle for coastal protection/conservation at each section, Ideal coastal situation for Section is determined, based on

- 1) coastal risk analysis,
- 2) hinterland utilization and coastal utilization,
- 3) existing coastal facilities.

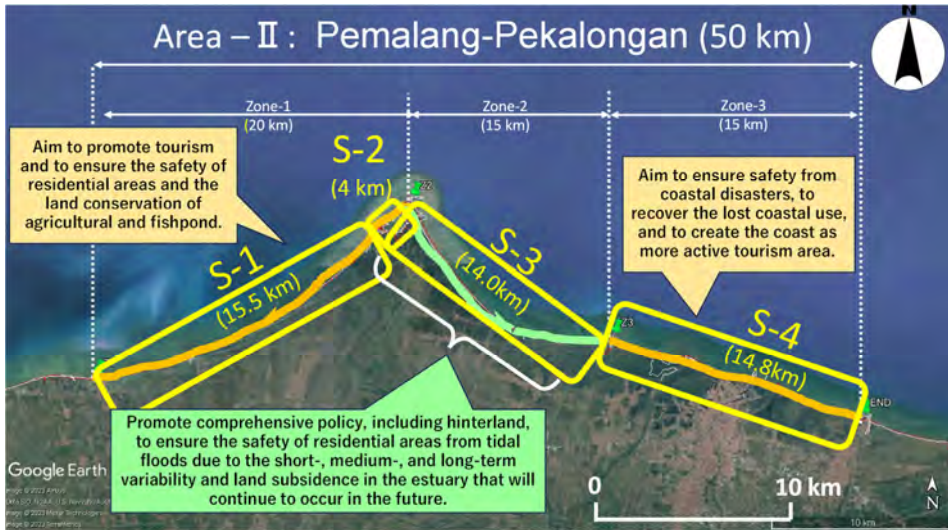


16

### Step 4. Setting of Ideal coastal situation in each Section

To clarify mid-term principle for coastal protection/conservation at each section, **Ideal coastal situation** for Section is determined, based on

- 1) coastal risk analysis,
- 2) hinterland utilization and coastal utilization,
- 3) existing coastal facilities.



### Step5 - Step 7: Procedure for determining coastal measures.

#### Step-5: Categorization of basic direction for required function on coastal management

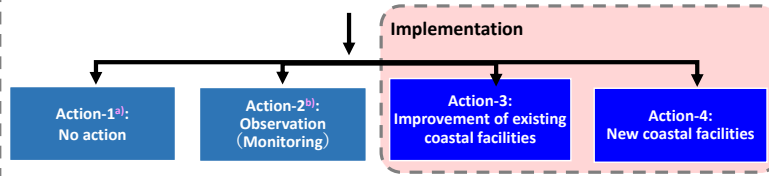
Categorization for required functions on each coast from three perspectives of Protection, Environment and Utilization ← **Input** Situation of coastal hinterland, and coastal utilization

#### Categorization of required functions

Category-1	Category-2	Category-3	Category-4
Protection	Protection + Environment	Protection + Utilization	Protection + Environment + Utilization

**Input**  
1) existing coastal facilities  
2) existing development plan of coastal facilities

#### Step-6: Selection of direction for required action for coastal management



- a) Action-1: No action**  
Ex1) No issues on the coast  
Ex2) No need for new development  
Since existing facilities satisfying the function
- b) Action-2: Observation (Monitoring)**  
Ex1) Coast that has no present risks, but has future risks of coastal disaster  
Ex2) Coast that doesn't meet the required function, but has been recently developed or has existing development plan

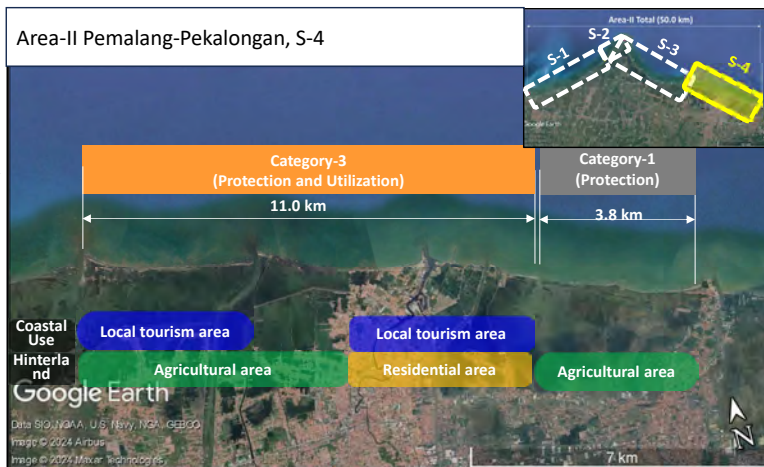
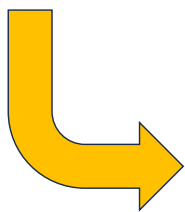
**Step-7: Selection of protection measures from several options**

### Step-5 Categorization of basic direction for required function on coastal management

To identify the **required function on coastal management** from viewpoint of "Protection", "Environment" and "Utilization", each coast is categorized into **four options**.

#### Categorization of required functions

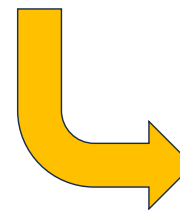
Category-1	Category-2	Category-3	Category-4
Protection	Protection + Environment	Protection + Utilization	Protection + Environment + Utilization



### Step-6 Selection of direction for required action for coastal management

Considering **existing coastal facilities** and **existing development plan of coastal facilities**, the concrete action on coastal management are selected from **4 options**.

Action-1: No action	Action-2: Observation (Monitoring)	Action-3: Improvement of existing coastal facilities	Action-4: New coastal facilities
---------------------	------------------------------------	--	----------------------------------



### Step-7 Selection of protection measures from several options

Protection measures were determined from several options based on  
1) Function, 2) Effectiveness, 3) Cost/benefit, etc.

#### Function

coastal measure	Cat.1 Protection	Cat.2 Protection Environment	Cat.3 Protection Utilization	Cat.4 Protection Utilization Environment
1 <b>Hard (Structure) measure</b> (Revetment, groin)	█			
2 <b>Green measure</b> (Mangrove plantation, Coral transplantation)	█			
3 <b>Soft measure</b> (Beach nourishment)			█	
4 <b>Combination</b> (hard, soft, green, gray measures)	█	█	█	█

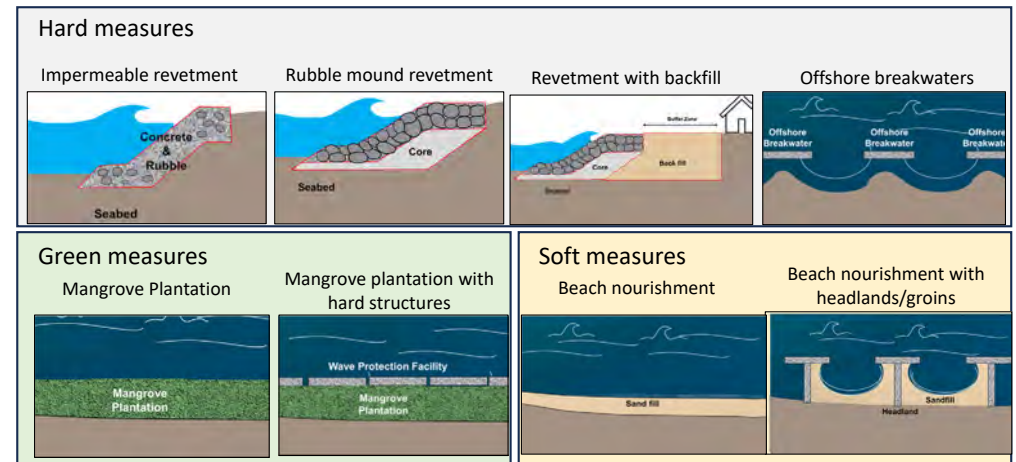
  

1. Hard measure	2. Green measure	3. Soft measure	4. Combination

### Step-7 Selection of protection measures from several options

Protection measures were determined from several options based on  
1) Function, 2) Effectiveness, 3) Cost/benefit, etc.

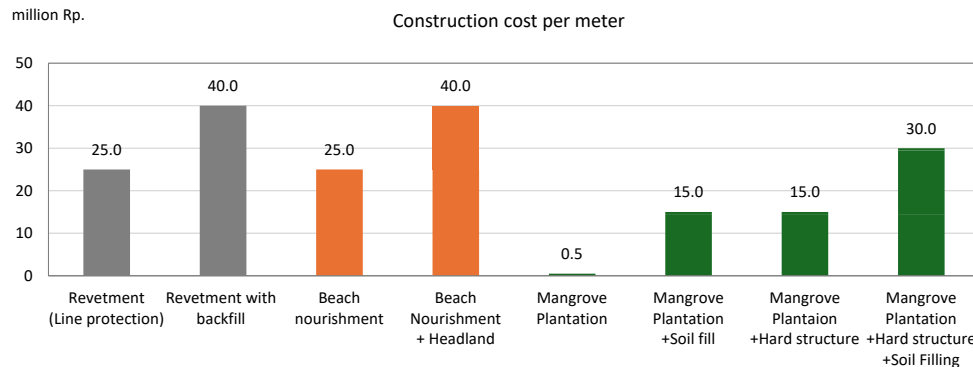
#### Effectiveness of each options



### Step-7 Selection of protection measures from several options

Protection measures were determined from several options based on  
1) Function, 2) Effectiveness, 3) Cost/benefit, etc.

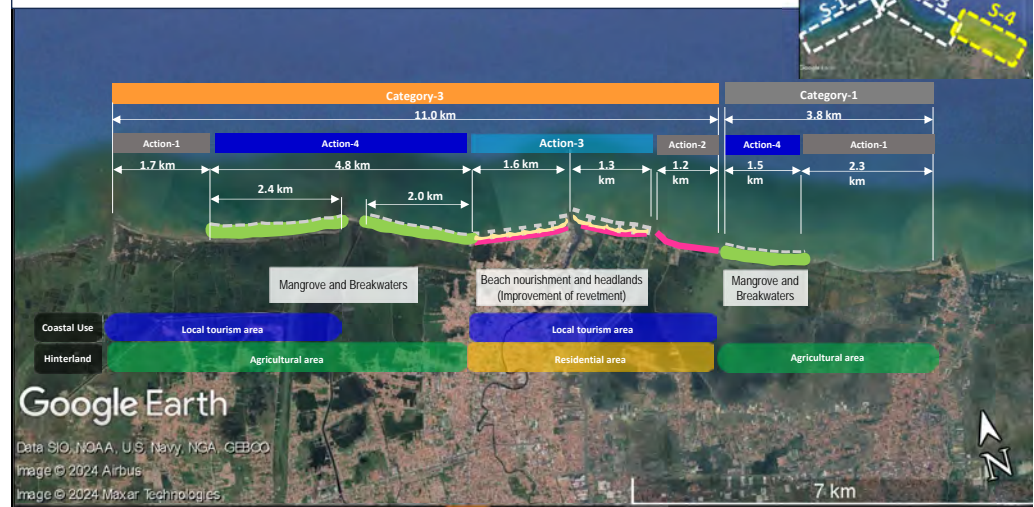
#### Cost



- Assumption:
- Revetment with backfill is revetment with Ave. 20 m of backfill
  - Beach nourishment assumes Ave. 30 m of beach width
  - Beach nourishment with headland/groin is the above + headland (250 m interval)
  - Mangrove plantation is assumed 150 m width.
  - Mangrove plantation + soil fill is the above + soil fill with 1 m thickness
  - Mangrove plantation + hard structure + soil fill is the above + rock breakwaters

### Step-8 Layout Plan for Coastal Management

Area-II Pemalang-Pekalongan, S-4



**Spatial Plan**

Marine Spatial Plan: Fishing Port, Fisheries Area, Fishing Port, Mangrove, Tourism Zone, Fishing Port, Fisheries Area, General Port

Land Spatial Plan: Fisheries Area, Residential Area

**Legend**

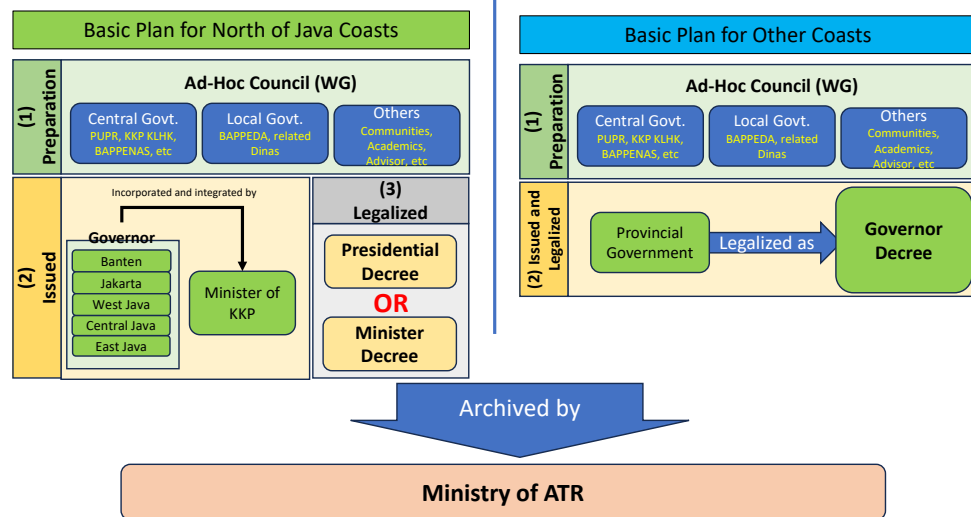
Category	Function
Category 1	Only "Protection" function is considered
Category 2	"Protection" and "Environment" functions are considered
Category 3	"Protection" and "Utilization" functions are considered
Category 4	"Protection", "Utilization", and "Environment" functions are considered

**Action Legend:**

- Action-1: No action
- Action-2: Observation (Monitoring)
- Action-3: Improvement of existing coastal facilities
- Action-4: New coastal facilities

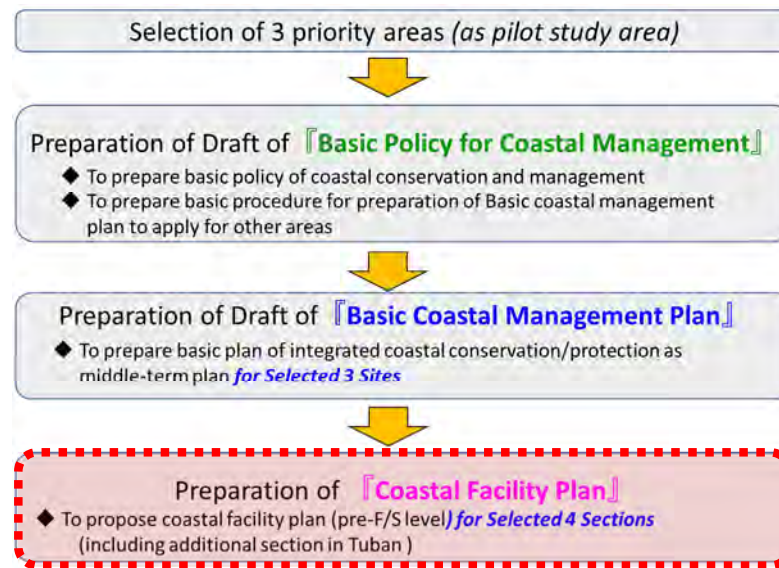
# Idea for Enactment for Prepared Basic Plan

Considering the importance of north coast of Java Island on economic activities comparing to other area, the issuing for enactment of basic plan will be different as below (Idea from BAPPENAS)

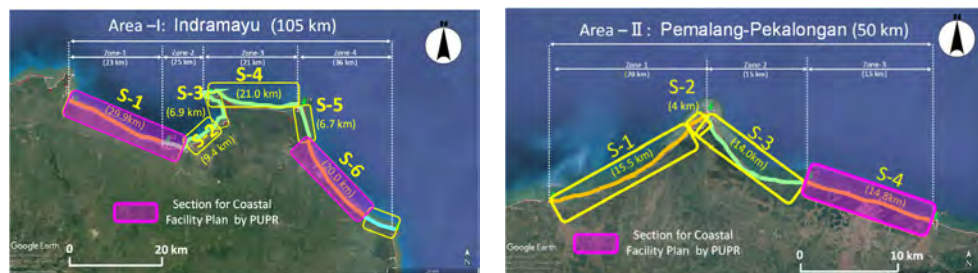


<sup>1)</sup> <https://maritim.go.id/detail/urgensi-land-subsidence-kemenko-marves-sinkronisasi-pokja-di-pantura> (accessed at 7 June 2024 13.20 GMT+7)  
<sup>2)</sup> Presidential Decree 15/2018 on Acceleration of Pollution and Damage Control to the Citarum River Watershed

# 5.Coastal Facility Plan for Selected 4 Sections

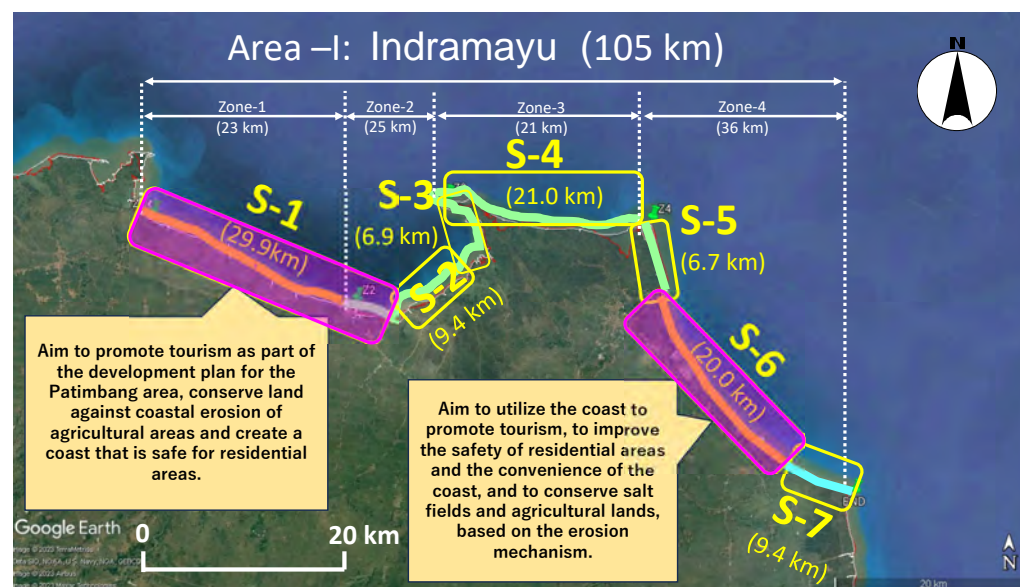


## Four sections for target site of coastal facility plan by PUPR (Pink highlighted part)

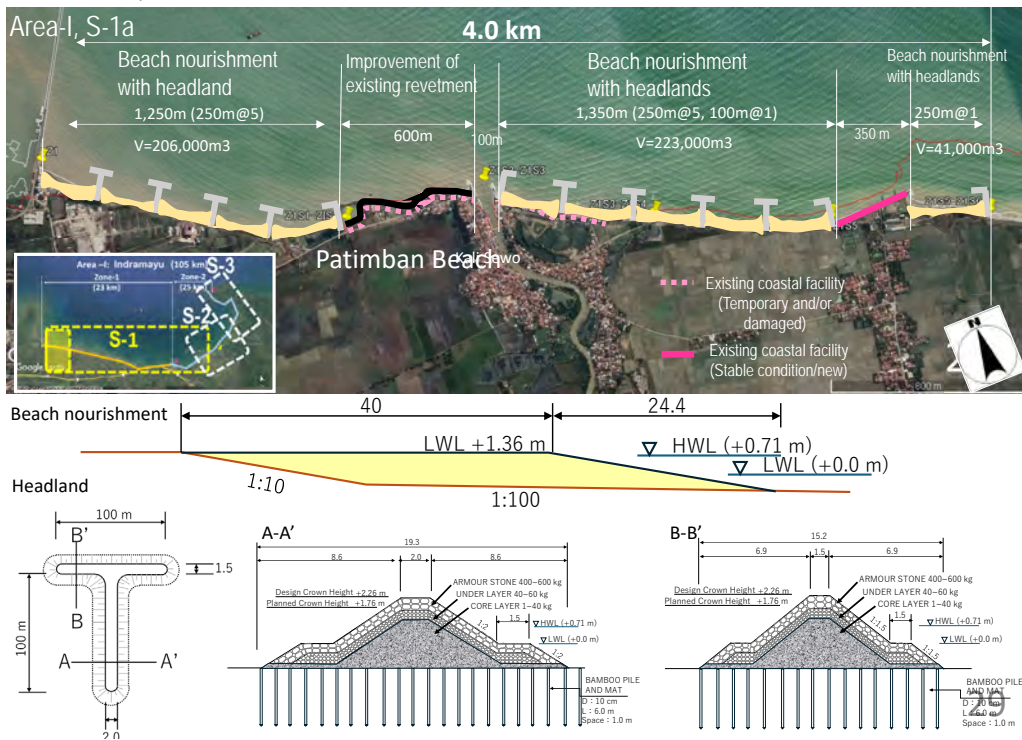


Name	Area	Zone	Section	Coastal Length
Indramayu West	Area-1	Zone-1	S-1	29.6 km
Indramayu East	Area-2	Zone-4	S-6	20.0 km
Pecalangan	Area-3	Zone-3	S-4	14.8 km
Tuban	-	-	T	14.4 km
<b>Total</b>				<b>78.8 km</b>

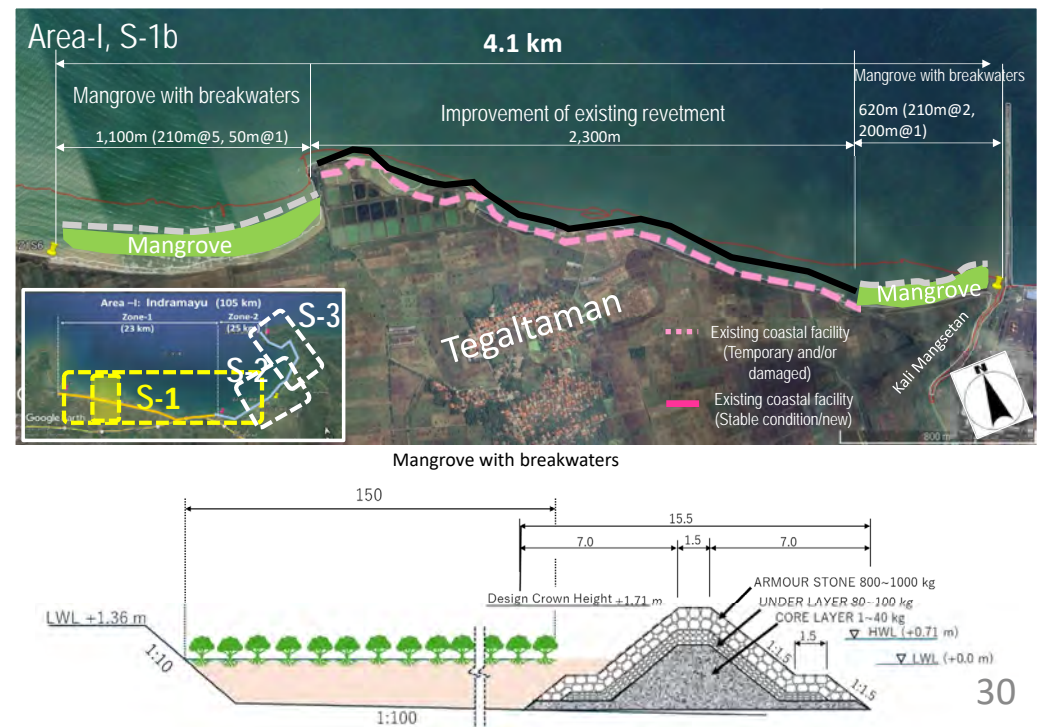
## Ideal Coastal Situation (Area-I)



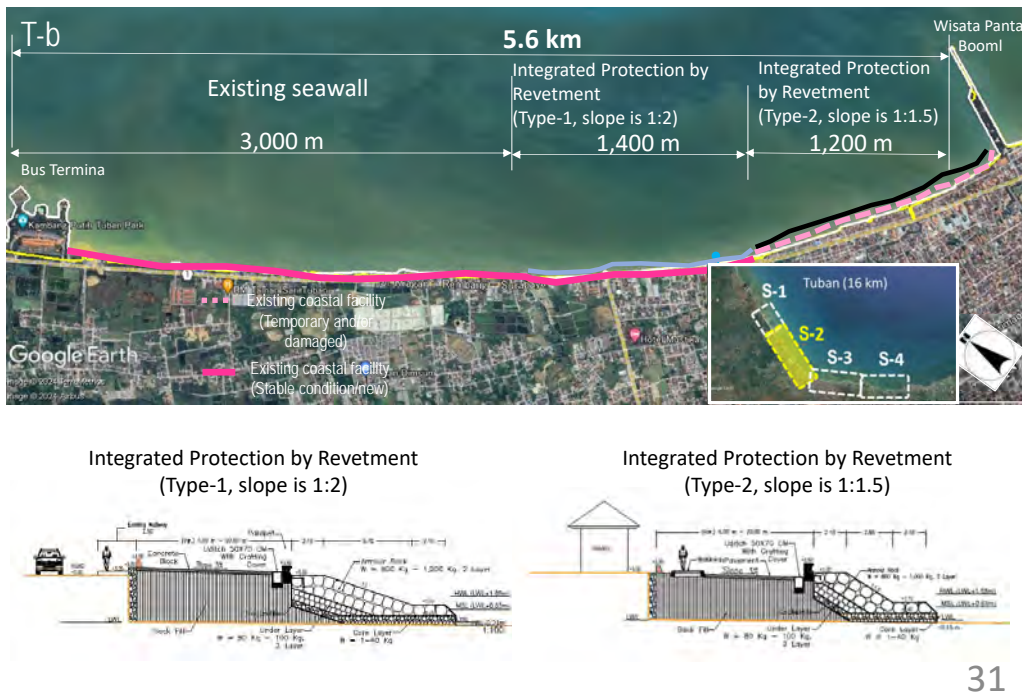
### Case Example of Beach fill with Headland



### Case Example of Mangrove with Breakwaters



### Case Example of Revetment



### Mangrove and breakwaters for mangrove protection



### Beach nourishment with headlands



### Integrated Protection by Revetment (Type-1 , Slope 1:2)



### Integrated Protection by Revetment (Type-2 , Slope 1:1.5)



33

## Project Features in Quantity

	Indramayu West	Indramayu East	Pekalongan	Tuban	Total
<b>● Coastal length to be protected</b>					
Beach Nourishment	2.9 km	5.0 km	2.9 km	3.1 km	<b>14.0 km</b>
Mangrove with breakwaters	7.8 km	-	5.5 km	-	<b>13.2 km</b>
Integrated Protection by Revetment	-	-	-	11.3 km	<b>11.3 km</b>
<b>Total</b>	<b>10.7 km</b>	<b>5.0 km</b>	<b>8.4 km</b>	<b>14.4 km</b>	<b>38.5 km</b>
<b>● Main quantities for facility plan</b>					
Beach nourishment	289,866 m <sup>3</sup>	369,851 m <sup>3</sup>	438,531 m <sup>3</sup>	200,043 m <sup>3</sup>	<b>1,298,219 m<sup>3</sup></b>
Headland/ groin	11 Nos	15 Nos	11 Nos	5 Nos	<b>42 Nos</b>
	2,200 m	3,500 m	2,100 m	500 m	<b>8,300 m</b>
Breakwater for mangrove	39 Nos	-	27 Nos	-	<b>42 Nos</b>
	7,430 m	-	5,190 m	-	<b>12,620 m</b>
Mangrove	117 ha	-	82 ha	-	<b>199 ha</b>
Soil fill for mangrove	1,167,000 m <sup>3</sup>	-	819,000 m <sup>3</sup>	-	<b>1,986,000 m<sup>3</sup></b>

34

## Rough estimate on construction cost

Pay Item (category-level)	Indramayu West	Indramayu East	Pekalongan	Tuban	Total
1 General and Preparatory Works	5,000,000,000	3,000,000,000	5,000,000,000	5,000,000,000	<b>18,000,000,000</b>
2 Health, Safety and Environmental Works	5,000,000,000	3,000,000,000	5,000,000,000	5,000,000,000	<b>18,000,000,000</b>
3 Beach Nourishment	78,843,573,253	100,599,562,484	119,280,447,633	54,411,696,000	<b>353,135,279,370</b>
4 Headland/ Groin Works	42,652,251,200	56,406,026,480	54,833,528,000	5,841,318,000	<b>159,733,123,680</b>
5 Mangrove Protection and Plantation Works	228,175,646,000	0	175,215,411,000	0	<b>403,391,057,000</b>
6 Integrated Protection by Revetment	0	0	0	359,203,609,000	<b>359,203,609,000</b>
7 Initial Maintenance Work	3,757,678,067	1,369,819,751	3,424,394,075	740,900,000	<b>9,292,791,893</b>
<b>Construction Cost (IDR)</b>	<b>363,429,148,520</b>	<b>164,375,408,714</b>	<b>362,753,780,709</b>	<b>430,197,523,000</b>	<b>1,320,755,860,943</b>

\*Unit price estimated refereeing to Indonesian standard and similar projects

35

## Rough estimate on Project cost

Item	Amount	Note
(1) Total Construction Cost	1,320,755,860,943 Rp	Sum of 4 sections
(2) Consultant fee for E/S	132,075,586,094 Rp	10% of (1)
(3) Consultant fee for S/C	15,000,000,000 Rp	Estimated from similar projects
(4) Physical Contingency	73,391,572,352 Rp	5 % of sum of (1),(2),(3)
(5) Price Escalation	262,007,913,296 Rp	17 % of sum of (1),(2),(3),(4)
<b>(6) Project Cost</b>	<b>1,803,231,000,000 Rp*</b>	Sum of all of the above

**112 mil USD**

\*112,341,000 USD or  
17,491,000,000 JPY

36

# Economic Analysis

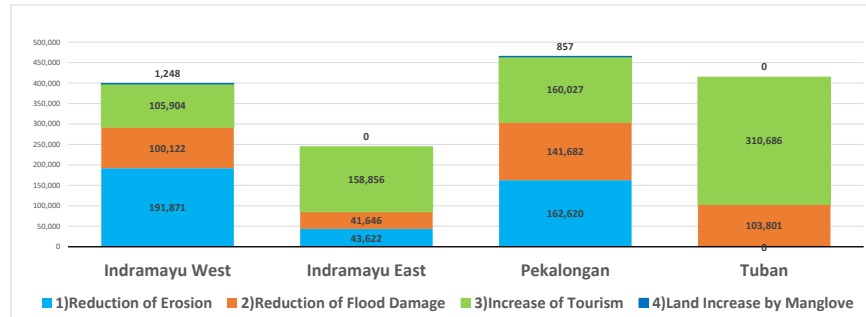
Cost: Project cost for coastal conservation

Benefit:

- ① ■ Erosion prevention
- ② ■ Inundation protection
- ③ ■ Tourism enhancement
- ④ ■ Land restoration by mangrove

No. of visitors: Estimated based on 1) present visitors and 2) length of beach area

Annual increase rate: Estimated as 4.9% based on tourism trend statistics



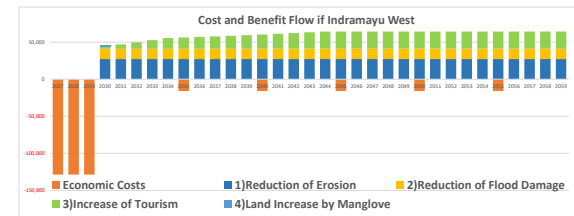
▲ Benefit in present value (mil Rp)

# Results of Economic Analysis

Reference target values for Indicators

- EIRR (Economic Internal Rate of Return)  $\geq 10\%$
- B/C (Cost Benefit Ratio)  $\geq 1.0$
- NPV (Net Present value)  $> 0$

Section	EIRR	B/C	NPV (mil Rp.)
Indramayu West	11.9%	1.19	62,976
Indramayu East	15.1%	1.62	93,330
Pekalongan	13.7%	1.39	130,008
Tuban	10.7%	1.08	32,108
<b>Total</b>	<b>12.7%</b>	<b>1.26</b>	<b>1,522,942</b>



▲ Cost and benefit flow (Indramayu West)

Other conditions:

- Base year: 2024
- Construction period: 3 years
- Evaluation period: 30 years after the implementation
- Discount rate: 10%

## 6. Technical Transfer & Capacity Development

### 1) Training for Bali Beach Conservation Project

- **Purpose**
  1. To see actual coastal conservation measures by applying beach nourishment
  2. To learn the importance of coastal management and maintenance
- **Training Period:** Sep. 5– 8, 2023 (4 days)
- **Trainees:** 23 trainees (16 from Indonesia, PUPR, BBWS, KKP, KLHK, BAPPENAS)



## 2) JICA Knowledge Co-Creation Program “Sustainable Coastal Protection Measures”

- **Purpose**
  1. To learn actual coastal conservation measures from not only successful cases but also unsuccessful case in Japan
  2. To learn the importance of integrated coastal zone management (ICZM)
- **Training Period** (2times): Nov.28 to Dec.15 (2022), Nov.27 to Dec.14 (2023)
- **Trainees:** 6 from Indonesia(2022), 5 from Indonesia(2023),



Kickoff presentation  
(Presentation of coastal issues in each country)



Okinawa - Kayo Coast  
(Efforts to build consensus among residents)



Miyako Island, Tokyu Resort Beach  
(Coastal mechanism, countermeasures)



Shizuoka - Upstream of Aber River  
(Sediment mechanism throughout basin)



Kanagawa, Chigasaki Coast  
(Beach maintenance by sand bypass)



Presentation of Action Plan  
(Presentation and feedback from lecturer)

42

# 7. Project Evaluation & Remaining Subjects

## 1. Expected Goal, Output and the Project

(Refer to R/D 31 March 2022)

### Expected Goal

Selected coastal area of the North Coast of Java Island is properly managed based on the draft **Basic Policy for Coastal Management** and the draft **Basic Coastal Management Plans** (Master Plans) considering harmonization of coastal **protection, environment, utilization and development**

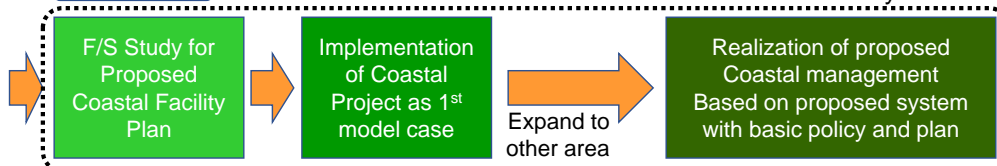
### Output of the Project

Covered by this Project

1. Preparation of 「Draft of Basic Policy for Coastal Management」
2. Preparation of 「Draft of Basic Coastal Management Plan」 (3 Areas)
3. Preparation of 「Plan of Coastal Facility Plan」 (4 Sections as Pre-F/S Level)
4. Technology transfer to the relevant GOI staff through the project

### Next Step

Performed by GOI



43

## Summary of Evaluation for Project Outputs

Output	Achievement (in the Project)	Evaluation Index Outcome (after 3 years)
Draft of Basic Policy for Coastal Management	Draft of basic policy for English and Indonesian version was prepared and submitted	<ul style="list-style-type: none"> <li>● The proposed draft of <b>Basic Policy, Basic Plan, and Coastal Facilities Plan</b> are incorporated as part of the policies and plans for the implementation of coastal protection projects by PUPR</li> <li>● Coastal protection projects (one or more) referring to the above three plans have been planned or implemented by PUPR</li> </ul>
Draft of Basic Coastal Management Plan	Draft of basic plan for three areas (Indramayu, Pemalang-Pekalongan, Remban-Tuban) was prepared	
Coastal Facility Plan	Coastal facility plan for selected 4 sections (3 from above 2 areas, 1 from Tuban) was prepared as pre-F/S level	
Technical Transfer	<ul style="list-style-type: none"> <li>● Conducting WG &amp; CGD</li> <li>● JICA training in Okinawa 2023</li> <li>● Training in Bali Beach Project (BBCP1 &amp;2) 2023</li> </ul>	

44

## Action to Achieve Expected Goal

- ◆ To implement coastal protection and management based on the basic unified policy and mid-term M/P as proposed system  
(currently, no system exists like this plan)
- ◆ To apply coastal protection measures from various options (green & gray, soft & hard) based on setting “Ideal coastal situation” at each coast, taking into account “Protection”, “Environment” and “Utilization”  
(currently most of coastal measures are focus only “Protection”)
- ◆ To establish and realize implementation/management system in cooperation with related agencies for coastal protection.  
(currently, protection by using hard-structure measures is PUPR, conservation by using green-infra is KKP, KLHK.  
Also, coordination for coastal management seems insufficient for coastal problems)

45

## Confirmation of Remaining Subjects and Target Period

Item	Remaining Subjects	Expected Target Period
Basic Policy for Coastal Management	Finalization of contents	Sep. 2024
	Action taking for legislation	Dec. 2025
Basic Coastal Management Plan	Acceptance of procedure and proposed plan for 3 areas	Sep. 2024
	Issuing of enactment for prepared basic plan	Dec. 2025
	Expansion to prepare the basic plan to other areas	From Dec. 2024
Coastal Facility Plan	Concrete procedure and structure for implementation of combined green & gray infrastructures by multi-agencies	June 2025
Others (Project Formulation)	Project formulation as JICA Loan Project following current Blue Book	From now

46

## Required Study in F/S for Coastal Facility Plan

Coastal Facility	Remaining Subjects	Outline
Beach Nourishment	Sand borrow investigation at offshore seabed	For beach nourishment, the unit cost of sand must be reduced. Potential area at offshore will be Investigated.
	Permission procedure (especially KKPR of Spatial Plan) for above	Currently, it is no need to revise the spatial plan itself, but approval from the ATR is required (KKPR: Conformity of Space Utilization Activities). Based on the Bali Beach Conservation Project, it may take about one year for this approval. Considering AMDAL and Mining Permit afterward, it is recommended to proceed in advance.
Mangrove Plantation	Reviewing on appropriate site selection, protection effectiveness, implementation & maintenance method and organization, etc.	Although the above-mentioned studies are not conducted in this Pre-F/S level study, it is necessary to obtain some evidence and assurance for formulation of the project
	Discussion & study of implementation structures for combination with green- & gray-infrastructure with cooperation of related agencies	It is desirable to promote discussions on mechanisms and systems to promote active collaboration among related agencies, including the possibility of implementing the project with multiple agencies.
Hard Structures	Clarification on design for necessity of countermeasure for settlement due to construction of structures and land subsidence	Some areas and facilities may or may not have subsidence control measures. The effectiveness of such measures is also unclear. Since this will affect the project cost, it is desirable to collect and study further information in advance.

47

## 8. Recommend Roadmap (for Implementation of Proposed Coastal Facility Plan)

### 3 Important Key-Words

Implementing under “unified basic policy & plan”

Combination of green & gray, soft & hard measures

Multi-sectoral implementation and management

48

### Recommended Roadmap for Implementation of Proposed Coastal Facility Plan

Item	2024		2025		2026		2027		2028		2029		2030		2031	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>1 Required Continuous Action by Indonesian Side</b>																
Basic Policy for Coastal Management	Finalization of contents															
	Further discussion & coordination for legislation															
	Action taking for above															
	Issuing of legislation															
Basic Coastal Management Plan	Understanding & acceptance for procedure															
	Finalization & acceptance for 3 case-study areas															
	Further discussion & coordination for enforcement															
	Action taking for above															
Coastal Management Plan	Discussion for expansion at other areas															
	Discussion & coordination for implementation of combined green & gray infrastructures															
Project Formation	Discussion & coordination for formulation of Loan Project among relevant parties															
<b>2 F/S Study on implementation of Coastal Facility Plan</b>																
Basic Design (B/D) & Feasibility Study (F/S)																
Beach Nourishment	Investigation for sand borrow site															
	Proceeding of permission for above (KKPR)															
	Further study for adaptivity, effectivity, etc.															
Mangrove Plantation	Discussion & coordination for implementation structures (inc. collaboration with communities)															
	Further study for subsidence of structures															
Hard Structures	Further study for subsidence of structures															
Required process for concluding Loan Agreement																
<b>3 Project Implementation</b>																
1 Coastal Protection Combined with Green & Gray Infrastructures																
1) Implementation of pilot project																
2) Further implementation for other areas																
2 Beach Nourishment (with Groins & Headlands)																
1) Implementation of pilot project																
2) Further implementation for other areas																
3 Integrated Protection by Revetment (at Tuban)																
<b>4 Technical Transfer &amp; Capacity Development (as Soft Component)</b>																
Support for Preparation of Basic Coastal Management Plan	Other areas for north of Java Island															
	Other primary Islands															
Support for Preparation of Coastal Facility Plan	Other areas for north of Java Island															
	Other primary Islands															



### Basic Policy for Coastal Management

- Indonesian side shall continue to discuss for finalization of the contents of “Basic Policy for Coastal Management” and its legislation with relevant agencies based on the proposed idea by JST. Indonesian side shall finalize the academic transcript (draft zero) and action plan toward the legislation and share them with JICA by Sep. 2024
- The JCC members of Indonesia agreed to take concrete action following the action plan for legislation that is expected to be effective on Dec. 2026.

### Basic Coastal Management Plan

- The JCC members of Indonesia shall continue to review and provide their comments for the draft of “Basic Coastal Management Plan” at three areas, which were recommended by the JST, for finalization. The comments shall be shared with JICA by Sep. 2024 to refer to further coordination for formulation of loan project.
- Procedure for enactment of prepared basic plan shall be discussed with the JCC members and the timeline toward the enactment shall be prepared by Sep. 2024. Basic Coastal Management Plan at the three selected priority areas are expected to be effective on Dec. 2026.
- The JCC members of Indonesia agreed to prepare the roadmap to roll up the preparation of “Basic Coastal Management Plan” to other area of north of Java Island and other main islands as mandated in the draft of “Basic Policy for Coastal Management”

## Coastal Facility Plan at Selected Sections

- PUPR agreed to commence the coastal protection projects **expected to start** from 2026 based on the proposed “Coastal Facility Plan” with harmonizing protection, environment and utilization.
- PUPR agreed to take action to establish implementation structure for green- and gray- infrastructure measures, coordinating with relevant agencies, especially with KKP, KLHK and Provincial Governments.
- PUPR, BAPPENAS and JICA basically agreed to start coordination to formulate coastal protection project of north coast of Java Island as Japanese loan project.

53

## Others

- GOI shall reflect the contents that were proposed in the Project into the next RPJMN (2025 – 2029) to establish and develop the sustainable coastal management system with harmonizing protection, environment and utilization.

54



**Thank you for your cooperation**

**Let's protect and conserve desirable coastal condition to next generation!**

