

Final Report
on
the Project of Capacity Development for
Climate Change Strategies in Indonesia

October 2015

Japan International Cooperation Agency

1. Introduction

The terminal evaluation was conducted from 9 May to 5 June, 2015 for the “Project of Capacity Development for Climate Change Strategies in Indonesia (the Project)”, with a result of signing by both parties on the terminal evaluation report, as attached in Annex 1. One of the evaluation results was to identify activities that need to be completed by the end of the Project. The present document aims to describe and assess the status of such activities. For the results and assessments of all the other activities, please refer to the terminal evaluation report.

The Project, as summarized in Table 1 and Table 2, has been implemented since October 2010 with the aim to enhance capacity of concerned key ministries and local governments of the Government of Indonesia (GI) to formulate and implement climate change policies. The Project implementation has been also aligned with the policy matrix as agreed with the Government of Indonesia under the Climate Change Programme Loan (CCPL). The Project consists of three sub-projects (SP) with different counterparts under the umbrella being coordinated by the National Development Planning Agency (BAPPENAS).

Table 1: Project framework

SP	Counterparts	Project Period	Pilot Sites
SP-1: Integration of Climate Change Mitigation and Adaptation into National Development Planning	-National Development Planning Agency (BAPPENAS) -Ministry of Agrarian and Spatial Planning (MASP)	Oct. 2010 - Oct. 2015	South Sumatra, North Sumatra, West Kalimantan (RAD-GRK); Northern coast of Java island, Bengawan Solo river basin and southern part of Sulawesi island (spatial planning)
SP-2: Capacity Development for Climate Change Adaptation Actions in Agriculture and Other Relevant Sectors	-BAPPENAS - Meteorological, Climatological and Geophysical Agency (BMKG) -Ministry of Agriculture (MOA)	Sep. 2010 - Oct. 2015	Bali Island (vulnerability assessment) East Java, West Java, Central Java, South Sulawesi (TOT and TOF) East Java (crop insurance)
SP-3: Capacity Development for Developing National GHG Inventories	-Ministry of Environment and Forestry (KLHK)	Apr. 2011 - Oct. 2015	South Sumatra, North Sumatra, East Java (GHG Inventory/ Waste sector)

Table 2: Summary of the Project

Overall Goal: Mitigation and adaptation actions for climate change are promoted in Indonesia.
Project Purpose: Capacity of the key ministries and local governments concerned of the

Government of Indonesia to formulate climate change policies based on the sound information and approaches is developed.
Project Purpose of SP-1: The capacity of the key ministries and local governments to formulate mitigation actions in a monitored, evaluated and reported manner and integrate adaptation into development planning is improved.
<p>Output 1: The capacity to formulate mitigation actions in a monitored, evaluated and reported manner in the pilot sector(s) or sub-sector(s) is enhanced.</p> <p>Output 2: The capacity to formulate the adaptation action plans, to integrate adaptation into development planning, and to monitor, evaluate and report on the progress of adaptation is enhanced.</p> <p>Output 3: The background study for the National Medium Term Development Plan (RPJMN) 2015-2019 for the relevant sectors (1) Food and Agriculture, 2) Marine and Fishery, 3) Forestry and Water Resources Conservation, 4) Energy, Minerals and Mining, 5) Environmental Affairs) is conducted and its reports are utilized for the formulation of RPJMN 2015-2019.</p>
Project Purpose of SP-2: Capacity to promote climate change adaptation actions in agriculture and other relevant sectors is improved.
<p>Output 1: Capacity of analysis on climate variability and change and of its communication is enhanced at BMKG.</p> <p>Output 2: Climate change adaptation by farmer communities is practiced to secure rice production.</p> <p>Output 3: Comprehension of the importance of crop insurance in agricultural protection is improved among stakeholders.</p>
Project Purpose of SP-3: National GHG inventories are compiled by KLHK on a regular basis in cooperation with key ministries and local governments concerned of the Indonesian government.
<p>Output 1: National System for preparing national GHG inventories is designed.</p> <p>Output 2: Capacity to periodically and systematically manage data necessary for national GHG inventories is enhanced.</p> <p>Output 3: Understanding on accuracy, transparency and reliability of GHG inventories is enhanced for each sector (energy; industrial processes; agriculture; land use, land-use change and forestry [LULUCF]; and waste) among key ministries and local governments.</p>

The following activities have been identified by the terminal evaluation as those which need to be finalized by the completion of the Project:

- | | |
|-----|---|
| SP1 | <ul style="list-style-type: none"> ● Update of the online system of monitoring, evaluation and reporting (MER) for the National Action Plan for GHG Emission Reduction (RAN-GRK) and the Local Action Plan for GHG Emission Reduction (RAD-GRK) ● Concept note for mainstreaming of adaptation to development plan at Bali and East Java as a part of the implementation of the National Action Plan for Climate Change Adaptation (RAN-API) ● Development of guideline for the integration of climate change adaptation into spatial planning |
| SP2 | <ul style="list-style-type: none"> ● National Training Workshop for Capacity Development on Downscaling |

Climate Change Projection

- Finalization of training guideline concerning climate change adaptation at farmer level
 - Completion of roadmap for crop insurance
- SP3
- Additional surveys to increase accuracy of activity data and local emission factor for inventory in waste sector
 - Finalization of policy recommendation for national GHG inventory

2. Status and assessment of the progress of the activities

The above-listed activities have been completed with their intended results as follow:

2.1. SP 1

The Project has supported RAN-GRK Secretariat/BAPPENAS to develop MER online system in order to facilitate MER process. The prototype of MER online system developed in 2014 was based on the MER guideline of that time. Under supervision of BAPPENAS, the revision process of MER guideline is taking place for waste, land-base, energy and transportation sectors through discussions and consultations among BAPPENAS, line ministries and RAN-GRK Secretariat. Since the revision process has not yet been completed, however, MER online system is not able to be updated. The Project transferred the current system to BAPPENAS server.

Bali and East Java are among the locations as targeted by RAN-API. Based on the result of vulnerability assessment on rice production for Bali and risk assessment on spatial plan for East Java, the respective provincial midterm development plan (RPJMD) were reviewed, and recommendations for integration of climate change adaptation into the development plans were presented.

The guideline for integrating climate change adaptation into spatial planning was developed, and will be published as a ministerial decree of the Ministry of Agrarian and Spatial Planning (MASP).

2.2. SP 2

In August 2015, by inviting local BMKG officers from 24 different stations, the national workshop on capacity development for downscaling of climate change projection was conducted by central BMKG officers who were trained in Japan.

In August 2015, the results and recommendations based on the training concerning climate change adaptation at farmer level in some pilot locations were confirmed with the counterpart. Training guidelines and other relevant materials were developed to be used for replication in other locations, which is planned by the MOA in 2016.

The roadmap Year 2015-2019 for nationwide implementation of crop insurance was jointly developed by BAPPENAS, MOA, the Ministry of Finance (MOF) and BMKG. Currently the document is under formalization process in the MOA.

2.3. SP 3

The scope of SP3 includes development of methodology for improving activity data accuracy and developing of local parameters in preparing national and local GHG inventory of municipal solid waste (MSW) treatment sub-sector and wastewater treatment sub-sector (residential and industry). The SP3 short-term expert team supported the development of the related manuals/guidelines, based on the lessons learned from the pilot activities in North Sumatera, South Sumatera and East Java. By using the manuals/guidelines, KLHK conducted waste composition survey as a part of process of development of local specific emission factor at solid waste disposal site (SWDS) (Bantar Gebang) in DKI Jakarta in September 2015. The manuals/guidelines will also be disseminated by KLHK.

Policy paper on improving activity data's accuracy and emission factor in waste sector to enhance GHG inventory and to revise mitigation action targets in Indonesia was finalized in October 2015. This policy paper indicates that the methodological improvement will likely result in the revisions of the emission level (inventory as well as baseline emission), suggesting that the re-examination of the adequacy of the current emission reduction target under RAN-GRK.

[Annex]

- Annex1: Terminal Evaluation Report on the Project of Capacity Development for Climate Change Strategies in Indonesia
- Annex2: Deliverable List
- Annex3: Actual Project Operation
- Annex4: Long-term Experts
- Annex5: Short-term Experts
- Annex6: Counterpart Training in Japan
- Annex7: Project Operational Cost
- Annex8: Equipment
- Annex9: Allocation of Counterpart Personnel
- Annex10: Counterpart fund
- Annex11: History of PDM
- Annex12: Record of Joint Coordination Committee (JCC)

MINUTES OF MEETINGS
BETWEEN JAPAN INTERNATIONAL COOPERATION AGENCY AND
THE AUTHORITIES CONCERNED OF THE GOVERNMENT OF
THE REPUBLIC OF INDONESIA ON
THE TERMINAL EVALUATION OF
THE PROJECT OF CAPACITY DEVELOPMENT FOR CLIMATE CHANGE STRATEGIES
IN INDONESIA

In line with the Record of Discussions (hereinafter referred to as "R/D") signed on October 26th 2010 and the amendment of R/D signed on August 29th 2013, a study for terminal evaluation of the Project was conducted from May 9th to June 5th 2015.

As a result of discussions, all the parties concerned with the project in reference to the Regulation of President of Republic Indonesia Number 165 of 2014 on Arrangement of Duty and Function of Working Cabinet, agreed to summarize the results of the terminal evaluation in the Terminal Evaluation Report attached hereto.

Jakarta, June 5th 2015



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Environmental Management Group, Global
Environment Development, JICA



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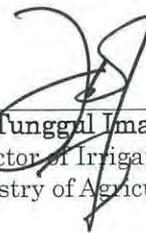
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Terminal Evaluation Report
on
The Project of Capacity Development for Climate Change Strategies in
Indonesia

Terminal Evaluation Team

June 2015

2015/6/1

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ANNEX 2: PO

ANNEX 3: Long-term Expert

ANNEX 4: Short-term Expert

ANNEX 5: Provision of Equipment under the project

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ANNEX 7: Long term Training in Japan

ANNEX 8: Short term Training in Japan

ANNEX 9: Local Cost by Indonesian Side

ANNEX 10: Counterpart List

ANNEX 11: Deliverables List

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Abbreviations

ADB	Asian Development Bank
AusAID	Australian Agency for International Development
BAPPEDA	Regional Development Planning Agency
BAPPENAS	National Development Planning Agency
BAU	Business As Usual
BLH	Regional Environmental Agency
BMKG	Meteorological, Climatological and Geophysical Agency
BUR	Biennial Update Report
CCPL	Climate Change Programme Loan
COP	Conference of the Parties
DAC	Development Assistance Committee
DPR	House of Representatives
OECD	Organization for Economic Co-operation and Development
DNPI	National Council on Climate Change
GEF	Global Environment Facility
GHG	Greenhouse Gas
GIZ	German International Cooperation Agency (Deutsche Gesellschaft für Internationale Zusammenarbeit)
IDR	Indonesian Rupiah
IPCC	Intergovernmental Panel on Climate Change
JCC	Joint Coordinating Committee
JICA	Japan International Cooperation Agency
JMA	Japan Meteorological Agency
KLHK	Ministry of Environment and Forestry
LULUCF	Land Use, Land-Use Change, and Forestry
MASP	Ministry of Agrarian and Spatial Planning
MEMR	Ministry of Energy and Mineral Resources
MER	Monitoring, Evaluation and Reporting
MOA	Ministry of Agriculture
MOF	Ministry of Finance
NAMAs	Nationally Appropriate Mitigation Actions
NGO	Non-governmental Organization
PDM	Project Design Matrix
PM-API	Developing Models-Adaptation to Climate Change
PU	Ministry of Public Work
RAN-API	National Action Plan on Climate Change Adaptation
RAD-API	Regional Action Plan on Climate Change Adaptation
RAN-GRK	National Action Plan for Greenhouse Gas Emissions Reduction
RAD-GRK	Regional Action Plan for Greenhouse Gas Emissions Reduction
REDD+	Reducing Emissions from Deforestation and forest Degradation and foster conservation, sustainable management of forests, and enhancement of forest carbon stocks
R/D	Record of Discussions
RPJMD	Regional Medium Term Development Plan
RPJMN	National Medium Term Development Plan
SIGN	National Greenhouse Gas Inventory System
SOP	Standard Operational Procedure
SP-1	Sub-Project 1 (Integration of Climate Change Mitigation and Adaptation into national Development Planning)
SP-2	Sub-Project 2 (Capacity Development for Climate Change Adaptation Actions in Agriculture and Other Relevant Sectors)
SP-3	Sub-Project 3 (Capacity Development for Developing National GHG Inventories)
TOF	Training of Farmer
TOT	Training of Trainer
WRF	Weather Research and Forecast
UNFCCC	United Nations Framework Convention on Climate Change

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1. Introduction

1-1. Background of the Project

The greenhouse gas (GHG) emissions in Indonesia are among the largest in the world, if including those from deforestation and peat land conversion, and are concerned to increase further along with economic development and population growth. Indonesia is also vulnerable to the impacts of climate change, such as the sea level rise as well as increases in frequency and intensity of extreme weather events. The integration of adaptation into the development plan has become important in both the national and local levels.

Indonesia is the host country of the 13th Conference of the Parties (COP 13) to the United Nations Framework Convention on Climate Change (UNFCCC) in 2007, and has taken an important role in international negotiations on climate change issues. At the G20 summit in 2009, the then President of Indonesia announced a voluntary commitment to reduce GHG emissions by 26% with its own resources and 41% with international supports by 2020 compared to the business as usual (BAU) scenario.

The Presidential Regulation No.61 Year 2011 on the National Action Plan on Greenhouse Gas Emissions Reduction (RAN-GRK) was issued in September 2011. This was followed by formulation of Regional Action Plan for Greenhouse Gas Emissions Reduction (RAD-GRK). The National Action Plan on Climate Change Adaptation (RAN-API) has also been developed and it was officially approved in February 2014.

The Government also issued the Presidential Regulation No. 71 Year 2011 on National GHG Inventory. Following this regulation, the Government of Indonesia (GOI) under the Ministry of Environment (KLH) ¹ established the National Greenhouse Gas Inventory System (SIGN). The SIGN serves as an optimal basis for the implementation of national and sub-national GHG inventories which are necessary especially for the development and implementation of RAN/RAD-GRK.

In response to multiple requests from the Indonesian Government, "The Project of Capacity Development for Climate Change Strategies in Indonesia" (hereinafter: the Project) has been conducted since October 2010 until October 2015. The Project implementation has also been aligned with the policy matrix as agreed with the GOI under the Climate Change Programme Loan (CCPL) (2008-2010).

1-2. Member of the Terminal Evaluation Team

Both sides agreed to establish the Joint Terminal Evaluation Team (hereinafter referred to as "the Team"). The members of the Team are shown below.

¹ As a result of merge of the Ministry of Environment with the Ministry of Forestry in 2015, KLH becomes KLHK.

(Japanese Side)

Designation	Name	Organization
Team Leader	Yutaka Fukase	Director, Environmental Management Team1, Environmental Management Group, Global Environment Development, JICA
Cooperation Planning	Takahiro Ikenoue	Acting Director, Environmental Management Team1, Environmental Management Group, Global Environment Development, JICA
Evaluation Analysis I	Haruo Ito	Senior Consultant, ICONS Inc.
Evaluation Analysis II	Teppei Okano	Consultant, ICONS Inc.

(Indonesian Side)

Name	Organization
Mr. Muchtar Muchamad	Local Consultant

1-3. Schedule of the Review

The Terminal Evaluation was conducted from 9 May to 6 Jun 2015. Detailed schedule is shown as follows.

Date	Mr. Ito (consultant)	Mr. Okano (consultant)	Mr. Muchtar (evaluator of Indonesian side)	Mr. Fukase (JICA HQ)	Mr. Ikenoue (JICA HQ)
9-May Sat	17:05 Arrival in Jakarta (GA875) 19:30 Project experts				
10-May Sun	Documentation				
11-May Mon	8:30 Japanese expert (SP-3) 9:45 BAPPENAS 11:00 Japanese expert (SP-3) 14:30 SIGN Center, KLHK 15:00 KLHK	8:30 Japanese expert (SP-3) 9:45 BAPPENAS 12:00 BAPPENAS 14:00 Meeting with Indonesian evaluator	14:00 Meeting with evaluation team		
12-May Tue	9:00 Joint technical meeting 12:30 MOA (SP-2, insurance) 14:00 RAN-API Secretariat Jakarta→Semarang	9:00 Joint technical meeting 12:30 MOA (SP-2, insurance) 14:00 RAN-API Secretariat	Same as Mr. Ito		
13-May Wed	8:00 MOA (SP-3) Semarang→Jakarta 17:30 Japanese expert	9:00 MASP 12:00 BAPPENAS 14:00 BMKG 15:00 Japanese expert (SP-2)	9:00 MASP 12:00 BAPPENAS 14:00 BMKG		
14-May Thu					
15-May Fri	12:00 BAPPENAS (SP-1) 14:00 BAPPENAS (SP-2 insurance)	9:00 Mol (SP-3) 14:00 ITB (SP-3)	12:00 BAPPENAS(SP-1) 14:00 BAPPENAS(SP-2 insurance)		
16-May Sat					
17-May Sun					
18-May Mon	7:30 Project Chief Advisor	10:00 MOA (SP-2, irrigation)			
19-May Tue	10:00 BAPPENAS	10:00 BAPPENAS 15:00 MOA (SP-2, insurance)			
20-May Wed	Jakarta→Palembang	Jakarta→Surabaya 15:00 BAPPEDA East Java 16:00 JOCV (SP-2)	Same as Mr. Ito		

21-May	Thu	8:30 Pilot Office, South Sumatra 9:00 BAPPEDA South Sumatra (SP-1)	Pasuruan, East Java (SP-2, irrigation)	Same as Mr. Ito		
22-May	Fri	BLH South Sumatra (SP-3)	Jombang, East Java (SP-2, insurance)	Same as Mr. Ito		
23-May	Sat	Palembang→Jakarta	Surabaya→Jakarta	Same as Mr. Ito		
24-May	Sun	Draft M/M				
25-May	Mon	Draft M/M 10:00 Project Chief Advisor		10:00 ADB 13:00 KLHK 17:30 GIZ		
26-May	Tue	10:30 Japanese expert (SP-3) 13:00 KLHK 16:00 Project Chief Advisor	Draft M/M 13:00 Project Chief Advisor 16:00 Project Chief Advisor	13:00 KLHK		
27-May	Wed	7:00 TV meeting (JICA Office) Complete initial M/M draft				
28-May	Thu	9:30 Joint meeting for reporting initial draft of evaluation				
29-May	Fri	Draft M/M 16:00 TV meeting (JICA Office)				
30-May	Sat	Revise M/M				
31-May	Sun	Evaluation team internal meeting				Arrival
1-Jun	Mon	Revise M/M				
2-Jun	Tue	Evaluation team internal meeting				Arrival
3-Jun	Wed	Circulate a revised draft of evaluation to all the Counterparts for confirmation				
4-Jun	Thu	Final confirmation				
5-Jun	Fri	10:30 Signing M/M, BAPPENAS 14:00 Embassy of Japan 16:00 JICA Indonesia Office Departure from Jakarta				
6-Jun	Sat	Arrival in Tokyo				

1-4. Summary of the Project

1-4-1. Project framework

The Project consists of 3 different sub-projects (SP) and becomes a large-scale cooperation. As shown in Table 1, a wide range of Counterparts are involved in each SP, and BAPPENAS takes a role of coordination for the whole project from Indonesian side.

Table 1: Project Framework

SP	Counterparts	Project Period	Pilot Sites
SP-1: Integration of Climate Change Mitigation and Adaptation into National Development Planning	-National Development Planning Agency (BAPPENAS) -Ministry of Agrarian and Spatial Planning (MASP)	Oct. 2010 - Oct. 2015	South Sumatra, North Sumatra, West Kalimantan (RAD-GRK); Northern coast of Java island, Bengawan Solo river basin and southern part of Sulawesi island (spatial planning)
SP-2: Capacity Development for Climate Change Adaptation Actions in Agriculture and Other Relevant Sectors	-BAPPENAS - Meteorological, Climatological and Geophysical Agency (BMKG) -Ministry of Agriculture (MOA)	Sep. 2010 - Oct. 2015	Bali Island (vulnerability assessment) East Java, West Java, Central Java, South Sulawesi (TOT and TOF) East Java (crop insurance)
SP-3: Capacity Development for	-Ministry of Environment and Forestry (KLHK)	Apr. 2011 - Oct. 2015	South Sumatra, North Sumatra, East Java (GHG Inventory/ Waste sector)

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Developing National GHG Inventories			
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As shown in Table 2, each SP has its own PDM, and outputs and activities are set respectively. On the other hand, the overall goal and project purpose are set for the whole project.

Table 2: Overall Goal, Project Purpose and Outputs of Each SP

Overall Goal: Mitigation and adaptation actions for climate change are promoted in Indonesia.
Project Purpose: Capacity of the key ministries and local governments concerned of the Government of Indonesia to formulate climate change policies based on the sound information and approaches is developed.
Project Purpose of SP-1: The capacity of the key ministries and local governments to formulate mitigation actions in a monitored, evaluated and reported manner and integrate adaptation into development planning is improved.
Output 1: The capacity to formulate mitigation actions in a monitored, evaluated and reported manner in the pilot sector(s) or sub-sector(s) is enhanced. Output 2: The capacity to formulate the adaptation action plans, to integrate adaptation into development planning, and to monitor, evaluate and report on the progress of adaptation is enhanced. Output 3: The background study for the National Medium Term Development Plan (RPJMN) 2015-2019 for the relevant sectors (1) Food and Agriculture, 2) Marine and Fishery, 3) Forestry and Water Resources Conservation, 4) Energy, Minerals and Mining, 5) Environmental Affairs) is conducted and its reports are utilized for the formulation of RPJMN 2015-2019.
Project Purpose of SP-2: Capacity to promote climate change adaptation actions in agriculture and other relevant sectors is improved.
Output 1: Capacity of analysis on climate variability and change and of its communication is enhanced at BMKG. Output 2: Climate change adaptation by farmer communities is practiced to secure rice production. Output 3: Comprehension of the importance of crop insurance in agricultural protection is improved among stakeholders.
Project Purpose of SP-3: National GHG inventories are compiled by KLHK on a regular basis in cooperation with key ministries and local governments concerned of the Indonesian government.
Output 1: National System for preparing national GHG inventories is designed. Output 2: Capacity to periodically and systematically manage data necessary for national GHG inventories is enhanced. Output 3: Understanding on accuracy, transparency and reliability of GHG inventories is enhanced for each sector (energy; industrial processes; agriculture; land use, land-use change and forestry [LULUCF]; and waste) among key ministries and local governments.

2. Methodology of Review

2-1. Process of the Terminal Evaluation

The Terminal Evaluation was conducted based on the revised PDM and Plan of Operation (PO) version 1. In accordance with the JICA Project Evaluation Guideline of June 2011, the Terminal Evaluation of the Project was conducted in the following manner;

- (1) To review the Project Performance with focus on (i) the results of Inputs and Outputs implemented and (ii) the degree of achievement of outputs, project purpose and overall goal based on the indicators set in the PDM;
- (2) To analyse factors that promoted and/or inhibited the project performance including matters

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- related to both the project design and project implementation process;
- (3) To evaluate the Project based on the five evaluation criteria: "relevance", "effectiveness", "efficiency", "impact", and "sustainability";
 - (4) To identify synergy effects among each sub-project/project;
 - (5) To analyze outcomes of the Projects for mainstreaming climate change into the national policies; and
 - (6) To make recommendations to stakeholders of the Project and derive lessons from the Project for improving planning and implementation of similar technical cooperation project in the future.

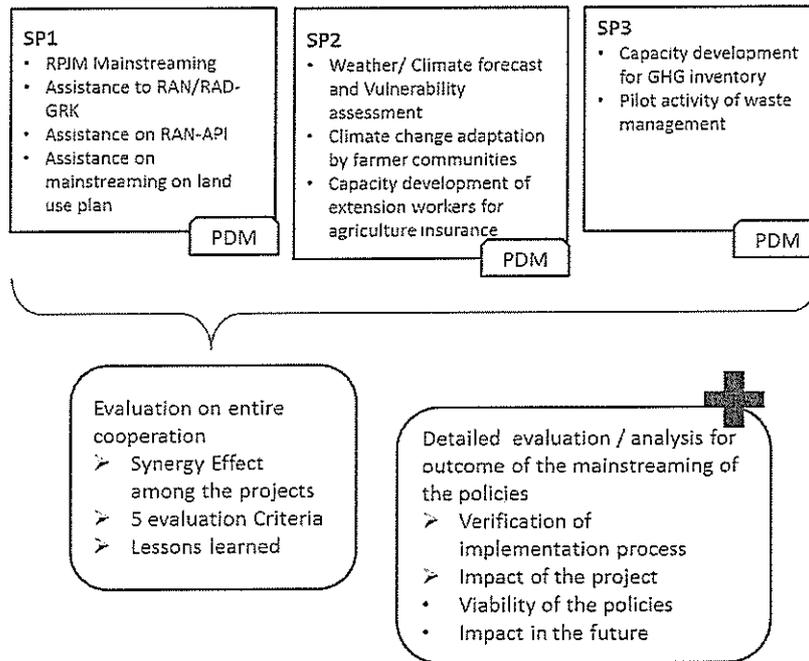


Figure 1: Framework of the Terminal Evaluation

2-2. Criteria of Evaluation

Table 3 shows the five evaluation criteria established by the Development Assistance Committee (DAC), Organization for Economic Co-operation and Development (OECD), which are to be applied in the Terminal Evaluation.

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Table 3: Five Evaluation Criteria

Criterion	Criteria
Relevance	Examines the extent to which the aid activity is suited to the priorities donor: Does the goal of the aid activity meet the needs of beneficiaries? Are the activities and outputs of the program consistent with the overall goal and the attainment of its objectives?
Effectiveness	Measures the extent to which a program or a project attains its objectives
Efficiency	Measures the extent to which a program or a project attains its objectives
Impact	Examines positive and negative changes as a result of the project. This includes direct and indirect effects and expected and unexpected effects
Sustainability	Sustainability Relates to whether the benefits of the project are likely to continue after the closure of the project.

Source: JICA Guideline for Project Evaluation

2-3. Data Collection Method

Both quantitative and qualitative data were collected and utilised for analysis. Data collection methods used for the Terminal Evaluation were as follows:

- Literature/document reviews
- Questionnaires
- Key informant interviews
- Participatory review workshops
- Direct observation at pilot sites (South Sumatra and East Java)

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3. Project Performance and Implementation Process

3-1. Inputs

3-1-1. Inputs by the Japanese Side

Table 4 shows the comparison of the planned as per PDM ver.1 of July 2013 and actual inputs from the Japanese side.

Table 4: Inputs by the Japanese Side

Planned (as per R/D of December 2010)	Actual (as of April 2015)
<p>[Japanese Experts]</p> <p>1) Long-term experts</p> <ul style="list-style-type: none"> - Chief Advisor/Climate Change - Project Coordinator - Sub-Chief Advisor/Vulnerability Assessment (SP2) - Sub-Chief Advisor/GHG inventory (SP3) <p>2) Short-term experts</p> <ul style="list-style-type: none"> - Short-term experts will be dispatched in accordance with the needs for the effective implementation of the Project 	<p>[Japanese Experts]</p> <p>1) Long-term experts</p> <ul style="list-style-type: none"> • Currently 4 long-term experts (6 experts in total) have been dispatched as the umbrella experts who engage in operational management of the Project. • 2 long-term experts, one for each SP-2 and SP-3, were dispatched. (See Annex 3) <p>2) Short-term experts</p> <ul style="list-style-type: none"> • 29 short-term experts (SP-1:10, SP-2:4 and SP-3:15) were dispatched for the respective SPs. (See Annex 4)
<p>[Counterpart Training]</p> <p>Short-term training of counterpart personal in Japan and/or third countries.</p> <p>In-country training</p>	<p>[Counterpart Training in Japan]</p> <p>The total number of the counterpart personnel having participated in training in Japan is 112 (long-term training: 5, short-term training: 107). (See Annex 7)</p>
<p>[Project Operational Cost]</p> <p>Local Expenses of project activities</p>	<p>[Project Operational Cost]</p> <p>Totally IDR 45,782,251,799 (Approx. 419 million Yen)² has been allocated as the project operational cost (Operating expenses, rewards, travel and meeting costs etc.). (See Annex 6)</p>
<p>[Equipment]</p> <p>Not mentioned</p>	<p>[Equipment] (See Annex 5)</p> <p>The equipment provided is office facilities such as computer, server, work station and others. In addition, for GIS training on SP-2, computers and software were provided.</p>

3-1-2. Inputs from the Indonesia side

Table 5 shows the comparison of the planned (as per PDM ver.1 of December 2012) and actual inputs from the Indonesia side.

Table 5: Inputs by the Indonesia Side

Planned (as per PDM ver.1)	Actual (as of April 2015)
<p>[Allocation of Counterpart Personnel]</p> <p>1) Project Director</p> <p>2) Deputy Project Directors</p> <p>3) Counterparts</p>	<p>[Allocation of Counterpart Personnel] (See Annex 10)</p> <p>One Project Director and 3 SP Directors have been assigned as members of the project management unit, and 73 counterparts (SP-1:35, SP-2:24, SP-3:14) were assigned by BAPPENAS, MASP, BMKG, MOA, and KLHK.</p>
<p>[Others]</p> <p>Provision of the project office and facilities necessary for the project implementation.</p>	<p>[Others]</p> <p>Office and facilities have been provided as the original plan.</p>

² Exchange rate IDR 1 = 0.00917 Yen (as of April 2015 / JICA)

[Counterpart fund] 1) Administrative and operational expenses. 2) Running costs for electricity, water, etc.	[Counterpart fund] (See Annex 9) The following amounts of operation budget were allocated to the project activities by the Indonesian side. (electricity, water, sanitation, guards, communication and transportation)
	Total (as of Dec. 2014) ³
	BAPPENAS 2,481,135,000
	PU 600,000,000
	BMKG 2,835,647,600
	MOA (Irrigation) 429,422,850
	MOA (Insurance) 75,000,000
	KLHK 8,000,000,000
Total 14,421,205,450	

3-2. Progress of Activities

3-2-1. SP-1

Most of the activities related to SP-1 have been carried out as planned according to the amendment of activities of Output 1 (Amended in July 2013). Guidelines and online system of Monitoring, Evaluation and Reporting (MER) for RAN/RAD-GRK has been developed by BAPPENAS through the RAN-GRK Secretariat in cooperation with Project and other development partners. RAN-API was also approved by the Indonesian government in February 2014 and its implementation has been promoted by BAPPENAS through the RAN-API Secretariat. The background studies in 5 sectors; namely Food and Agriculture, Marine and Fishery, Forestry and Water Resources, Energy, Minerals and Mining, and Environmental Affairs, were completed and reported. The results of the studies were applied to the formulation of RPJMN 2015-2019. A guideline for integrating climate change adaptation into spatial planning will be developed and completed by the end of the Project period.

	Activities	Progress
SP1	Output 1 【Mitigation】	<ul style="list-style-type: none"> The objective of Output 1 in initial stage was to support formulation and mainstreaming of NAMA and the associated measurement, reporting and verification (MRV). Priority NAMA projects had been identified in the pilot sites (North Sumatra and South Sumatra) by March 2012. However, "the Presidential Regulations No. 61, / 2011 on the National Action Plan for GHG Emission Reduction" was issued and the activity plan of the Project was revised to focus on supporting RAN-GRK rather than NAMA. Guidelines and online system of MER for RAD-GRK/RAN-GRK has been developed by BAPPENAS through the RAN-GRK Secretariat in cooperation with Project and other development partners. The MER online system is in the process of modification and will be completed by the end of the Project.

³ The local cost of BAPPENAS and KLHK, was not exclusively utilized for the project activities.

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Output 2 【Adaptation】	<ul style="list-style-type: none"> • RAN-API was approved by the Indonesian government in February 2014. • The implementation by coordination between national government and local government, NGO and other stakeholders has been promoted by BAPPENAS through the RAN-API Secretariat. The Project pilot activity has been carried out in North Sumatra. • Governor's Instruction of North Sumatra on Adaptation to Extreme Climate Condition as an Effort to Secure Rice Production was issued, and integrated in the current Regional Medium Term Development Plan (RPJMD) in North Sumatera. Monitoring indicators for the implementation of the above Instruction were also developed with the support of the Project. • With regards to integration of climate change adaptation to spatial planning, vulnerability assessment using climate change projection data has already been conducted in the pilot sites. • A guideline for integrating climate change adaptation to spatial planning will be developed and completed by the end of the Project.
Output 3 【Background study】	<ul style="list-style-type: none"> • The background studies on all 5 directorates of BAPPENAS (Food and Agriculture, Marine and Fishery, Forestry and Water Resources, Energy, Minerals and Mining, and Environmental Affairs) have been completed. The final reports of the background studies have been utilized for the formulation of RPJMN 2015-2019, which was issued by the new presidency in January 2015.

3-2-2. SP-2

While there is slight delay in the development of the road map for crop insurance, most activities in SP-2 have been carried out as planned. The activities related to output 1, in the first half of the Project, the vulnerability assessment map and guideline were developed through technical transfer to BMKG staff. In the second half of the Project, training on monthly/seasonal forecasting, downscaling using WRF model, and climate index has been provided to enable BMKG to better respond to the needs of users of climate prediction and projection data.

Regarding output 2, activities to set up a model of training program, curriculum, modules and materials for adaptation actions at farmer level have been conducted in the pilot sites in order to disseminate the model as well as lessons learned in other areas. For output 3, the roadmap (2015-2019) for nationwide implementation of crop insurance is under development based on the results of pilot activities.

In addition to BMKG, BAPPENAS (Directorate of Food and Agriculture), and MOA (Directorate of Irrigation Water Management, Directorate of Agricultural Finance) have been involved in the activities of SP-2 as counterparts since the amendment of R/D in 2013. BAPPENAS (Directorate of Financial Service and State Owned Enterprise) and MOF (Director of State Financial Risk Management) have also been heavily involved in the activities relating to crop insurance.

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	Activities	Progress
SP2	Output 1 [Analysis on climate variability and change]	<ul style="list-style-type: none"> • Technical transfer on geographical information system (GIS), and statistical analysis has been implemented, and the vulnerability assessment map and guideline have been developed. • The training to improve skills related to seasonal weather forecasting, including communication skills of weather information was provided. • Regular operational tasks in BMKG for vulnerability assessment were developed. The application of the results of downscaling to the needs of line ministries, such as MASP, has been supported. • Training on climate index in relation to crop production was implemented and documented.
	Output 2 Climate change adaptation by farmers communities	<ul style="list-style-type: none"> • The pilot activities have been conducted at pilot sites in the target provinces (East Java, South Sulawesi, West Java, and Central Java) to enhance the capacity of farmers to understand weather information and take adaptation actions. • The training consists of Training of Trainer (TOT) for agriculture extension workers and Training of Farmers (TOF) instructed by the trained agriculture extension workers. Monitoring and evaluation of training has been conducted and guideline for the future dissemination to other areas was developed based on the results of the pilot training.
	Output 3 Comprehension of the importance of crop insurance	<ul style="list-style-type: none"> • The support for crop insurance was added at the time of amendment of R/D in 2013. The study on a range of agriculture risk mitigation instruments have been conducted based on the pilot activities in East Java. • Technical guideline in respect to the Law on Farmer Protection and Empowerment was developed. • The road map (2015-2019) for nationwide implementation of crop insurance is under the process of formulation by BAPPENAS, MOA, MOF and BMKG. • The lessons learned from the pilot activities supported by the Project contribute to the finalization of the MOA Ministerial Decree for the implementation of crop insurance nationwide.

3-2-3. SP-3

On the basis of Presidential Regulations No. 71 (2011), the SIGN Center was established in 2011 under KLH to coordinate the preparation of National GHG inventory and local GHG inventory. For calculation of GHG emission, step-by-step manuals for preparing GHG inventories (Energy, Industrial processes, Agriculture, LULUCF and Waste sectors) were developed. Training seminars for the preparation of GHG inventory, the method of calculating emission and verification procedure has been provided to line ministries by using the developed manuals. The Project has focused its activity in the pilot sites for the second half of the project period. Technical workshops and training seminars at the local level to improve the emissions estimation of waste sector were conducted. GHG inventory manual and reporting software in the waste sector were also developed based on the pilot activities.

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	Activities	Progress
SP3	Output 1 Designing National system for preparing GHG inventories	<ul style="list-style-type: none"> • For calculation of GHG emission, step-by-step manuals for preparing GHG inventories (Energy, Industrial processes, Agriculture, LULUCF and Waste sectors) have been developed. • GHG inventory manual and inventory software (in the waste sector) have been developed through the activities in pilot sites. • The procedures for inventory compilation and QA/QC were documented in the step-by-step manuals and the GHG inventory manual in the waste sector. • The concerned institutions and their roles have been identified and shown in the GHG inventory manual.
	Output 2 Improving capacity for GHG inventories	<ul style="list-style-type: none"> • Technical transfer to KLHK and SIGN Center, and relevant Ministries staff on developing, screening, and compiling of GHG inventory has been implemented.
	Output 3 Promoting understanding on quality of GHG inventories	<ul style="list-style-type: none"> • Training for the preparation of GHG inventory, the method of calculating emission, and the verification procedure has been provided to line ministries. SIGN Center staff also supports line ministries in inventory preparation. • Workshops and training for preparation of GHG inventory in the waste sector have been implemented targeting at local government (both provincial and district levels) in the pilot sites (North Sumatra, South Sumatra and East Java)

3-3. Achievement of Outputs

3-3-1. SPI

Output 1: The capacity to formulate mitigation actions in a monitored, evaluated and reported manner in the pilot sector(s) or sub-sector(s) is enhanced.

All the indicators of output 1 have been achieved. Comprehension for NAMA and MRV and development of NAMA with MRV are set as the indicators in the first half of the project period. Support for RAN/RAD-GRK according to the priority in the national policy of Indonesia is set as the indicator in the second half of the project period. Currently, all 33 provinces (of 34, with the latest was only established in 2012) have also formulated RAD-GRK, and most of the provinces submit their monitoring reports through the RAN-GRK Secretariat.

Indicators	Achievement
1-1. Understanding of potential types of NAMA and associated MRV submitted by developing country Parties to the UNFCCC is obtained.	<ul style="list-style-type: none"> • A general matrix of potential NAMAs and their associated MRVs was developed on the basis of the related submissions by the Parties to the UNFCCC Secretariat. It was shared and discussed with stakeholders in the pilot sites. Based on the above understanding, needs assessment for feasible NAMA projects was carried out at the pilot sites.
1-2. Understanding of potential types of NAMA and associated MRV in the pilot sector(s) or sub-sector(s) in Indonesia is obtained.	<ul style="list-style-type: none"> • Potential types of NAMAs and their associated MRVs were developed on the basis of exchange of opinions with the provincial working group and evaluated by selection criteria.
1-3. MRV is incorporated into the formulation of NAMA in the pilot sector(s) or sub-sector(s).	<ul style="list-style-type: none"> • A list of feasible NAMA projects and their associated MRVs was developed at the pilot sites.
1-4. Guideline of RAD-GRK is authorized	<ul style="list-style-type: none"> • RAN-GRK Secretariat has been established by BAPPENAS

by BAPPENAS.	with the support of the Project in collaboration with GIZ, AusAID and other development partners. <ul style="list-style-type: none"> Guideline for formulation of RAD-GRK has been developed by BAPPENAS through the RAN-GRK Secretariat, and authorized by BAPPENAS.
1-5. RAD-GRK is issued as the governor decree in pilot provinces.	<ul style="list-style-type: none"> RAD-GRK was developed at three pilot sites (North Sumatra, South Sumatra and West Kalimantan) by Working Group consisting of BAPPEDA and the related agencies with the support by the Project. RAD-GRK was issued as the governor decree in the pilot provinces. All 33 provinces also have formulated RAD-GRK.
1-6. RAN-GRK and RAD-GRK is submitted to BAPPENAS in pilot provinces.	<ul style="list-style-type: none"> MER reports of RAN-GRK for North Sumatra and South Sumatra are submitted to BAPPENAS.

Output 2: The capacity to formulate the adaptation action plans, to integrate adaptation into development planning, and to monitor, evaluate and report on the progress of adaptation is enhanced.

All indicators of output 2 have been achieved. RAN-API was officially approved in February 2014. It has also been integrated in the RPJMN 2015-2019. In the meantime, with the support of the Project, the Governor Decree on Adaptation to Extreme Climate Condition as an Effort to Secure Rice Production was issued in North Sumatra. It has also been integrated in the RPJMD. Furthermore, the indicators for monitoring of the implementation of the above Decree have been developed and utilized in the monitoring and evaluation of the above RPJMD.

Indicators	Achievement
2-1. Adaptation related policy (ies) /instruction (s) in selected Pilot site (s) is (are) officially issued.	<ul style="list-style-type: none"> The Governor Decree on adaptation of rice production to extreme climate events was issued in North Sumatra and integrated to their RPJMD.
2-2. The draft Strategy for Mainstreaming Adaptation into National Development Planning is accepted by BAPPENAS.	<ul style="list-style-type: none"> The draft strategy for mainstreaming adaptation into national development planning was developed through a series of discussions at the council established with the support of the Project. The strategy was submitted to BAPPENAS, and published.
2-3. RAN-API is officially issued.	<ul style="list-style-type: none"> RAN-API was officially approved in February 2014.
2-4. Report(s) on monitoring and evaluation of implementation of RAN-API in the selected pilot activity (ies) is (are) submitted to BAPPENAS.	<ul style="list-style-type: none"> Indicators for the above Governor Decree in North Sumatra were developed and utilized for monitoring and evaluation of the implementation of the provincial RPJMD.

Output 3: The background study for RPJMN 2015-2019 for the relevant sectors (1) Food and Agriculture, 2) Marine and Fishery, 3) Forestry and Water Resources Conservation, 4) Energy, Minerals and Mining, 5) Environmental Affairs) is conducted and its reports are utilized for the formulation of RPJMN 2015-2019.

The indicators of output 3 have been achieved. The final reports of the background studies for the targeted directorates of BAPPENAS (Food and Agriculture, Marine and Fishery, Forestry and

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Water Resources, Energy, Minerals and Mining, Environmental Affairs) have been utilized for the formulation of RPJMN 2015-2019 which was issued as a presidential regulation in January 2015.

Indicators	Achievement
3-1. Reports of the background study of RPJMN 2015-2019 for the relevant sectors are approved by BAPPENAS.	<ul style="list-style-type: none"> The background studies for the targeted directorates of BAPPENAS were completed and each report has been published. The results of the study have been reflected in the formulation of RPJMN, specifically in relation to the climate change issue/strategy, improvement of livelihood of farmers and fisher, demand and supply of major agricultural products, energy supply, forest management, environment performance indicators, etc.
3-2. RPJMN 2015-2019 is approved.	<ul style="list-style-type: none"> RPJMN 2015-2019 was issued as presidential regulation in January 2015.

3-3-2. SP-2

Output 1: Capacity of analysis on climate variability and change and its communication is enhanced at BMKG.

The indicators of output 1 have been achieved. The results of pilot activities on vulnerability assessment concerning rice production of Bali Island were compiled in the vulnerability assessment map, lessons learned reports and guidelines by BMKG. These documents have also been utilized in the regular tasks of BMKG. Besides, the capacity of BMKG staff has been enhanced to enable them to better conduct downscaling on the request of external institutions.

Indicators	Achievement
1-1 A lessons-learned report for improving vulnerability assessment is produced.	<ul style="list-style-type: none"> The experiences on pilot activities and technical training for vulnerability assessment concerning rice production in Bali Island were compiled in the lessons learnt report of BMKG.
1-2 Skills for seasonal weather forecasting and its communication are obtained by the training participants and evaluated.	<ul style="list-style-type: none"> Basic skills for monthly and seasonal weather forecasting and its communication are obtained by the training participants from BMKG and evaluated.
1-3 At least two BMKG staff members are engaged as their regular operational tasks in producing information related to exposure to climate change.	<ul style="list-style-type: none"> Four BMKG staff who participated in training in Japan have been engaged in producing and providing information related to exposure to climate change.
1-4 A study report is produced on climate impacts and agriculture.	<ul style="list-style-type: none"> Training for BMKG staff on climate index in relation to crop production was conducted and its report was documented.

Output 2: Climate change adaptation by farmer communities is practiced to secure rice production.

All indicators of output 2 have been achieved. A model of training program, curriculum, modules and materials for adaptation actions and weather/climate information at Extension workers and farmer level has been designed based on the pilot activities. Not only positive results but also constraints have been identified. In July 2015, the results and recommendations based on the

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pilot activities will be shared with related institutions by holding a workshop.

Indicators	Achievement
2-1 Monthly/weekly local weather information is utilized by WUA, extension workers and other stakeholders.	<ul style="list-style-type: none"> Through the implementation of TOT and TOF, the training program, curriculum and materials were evaluated for the future dissemination. Although the climate and weather information is utilized by extension workers and farmers, some constraints to access the information was also identified as one of the lessons learned, and shared with the MOA. Weather and Climate information has been sent to all of regencies in Indonesia every 6 months by MOA in cooperation with BMKG.
2-2 Good practices on water management and rain water harvesting are tested on the ground at the pilot sites.	<ul style="list-style-type: none"> The detail plan on ground testing for water management and rain harvesting at the pilot sites was developed.
2-3 Recommendation on the way-forward for good practices on climate resilient agricultural development is developed and agreed.	<ul style="list-style-type: none"> The results and recommendations of the pilot sites for developing training models have been compiled, and will be shared with related institutions at the workshop in August 2015.

Output 3: Comprehension of the importance of crop insurance in agricultural protection is improved among stakeholders.

The indicators of output 3 have been achieved. Understanding of the operational details of crop insurance has been improved among stakeholders through the pilot activities in East Java and training in Japan. The crop insurance guideline was developed for future nationwide implementation. The road map for crop insurance is also being developed with initiative of BAPPENAS, MOA, BMKG and MOF.

Indicators	Achievement
3-1 Result of the pilot study is presented by the agricultural officials at a national policy discussion meeting.	<ul style="list-style-type: none"> The workshop to share the results of crop insurance in pilot sites and plans for future implementation was held in March 2015. The participants were concerned bodies from East Java province and the national government.
3-2 A general guideline and technical guidebook on crop insurance is developed.	<ul style="list-style-type: none"> A general guideline and technical guidebook on crop insurance has been developed. They were fully utilized in pilot sites.
3-3 A range of agricultural risk mitigation instruments is listed and evaluated.	<ul style="list-style-type: none"> Agricultural risk mitigation instruments are scrutinized through the development of the road map of crop insurance which is planned to be finalized by August 2015.

3-3-3. SP-3

Output 1: National system for preparing national GHG inventories is designed.

The indicators of output 1 have been achieved. As the documents related to the preparation of GHG inventory, the digest version of GHG guideline of IPCC 2006, step-by-step manuals for preparing GHG inventories, and a manual for GHG inventory on the waste sector were developed. The QA/QC has also documented in the above manuals by KLHK.

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Indicators	Achievement
1-1 Procedure for inventory compilation is documented.	<ul style="list-style-type: none"> A digest version of GHG guideline of IPPC 2006, step-by-step manuals for preparing GHG inventories and a manual for GHG inventory on the waste sector were developed and have been utilized by KLHK, BLH and line ministries.
1-2 Procedure for quality assurance/ quality control (QA/QC) is documented.	<ul style="list-style-type: none"> Procedure of QA/QC was documented in the step-by-step manuals and the manual for GHG inventory on the waste sector.
1-3 Institutional arrangement for preparation of national GHG inventories is documented.	<ul style="list-style-type: none"> Relevant institutions were identified in the manual for GHG inventory on waste sector.

Output 2: Capacity to periodically and systematically manage data necessary for national GHG inventories is enhanced.

The indicator of output 2 has been achieved. At the national level, the capacity of KLHK and SIGN Center to manage data in coordination with line ministries has been improved.

Indicators	Achievement
2-1. National GHG inventory data is properly archived and maintained.	<ul style="list-style-type: none"> Capacity of KLHK and SING Center staff to manage data from line ministries has been improved.

Output 3: Understanding on accuracy, transparency and reliability of GHG inventories is enhanced for each sector (energy; industrial processes; agriculture; land use, land-use change and forestry [LULUCF]; and waste) among key ministries and local governments.

The indicators of output 3 have been achieved. Understanding on accuracy, transparency and reliability of GHG inventories is enhanced in the waste sector through the pilot activities in North Sumatra and South Sumatra. At the pilot site in South Sumatra, BLH staff at both province and city levels expressed that they had enough capacity to calculate emission factors and improve the GHG inventory in waste sector. The emission factors, as well as activity data, in the waste sector are improved in the pilot provinces. The tire level of emission factors has been improved as below:

Category	Second National Communication (2012)	BUR (2014)
Waste Landfill of waste	Tire1	Tier 2/3
Biological treatment	Nothing	Tier 1
Incineration	Nothing/Tire1	Tire 2a
Waste water treatment	Nothing/Tire1	Tire 1

KLHK and BLH staff point out that gaining access to the data source and absence of consistency of data from of line ministers are major constraints to prepare GHG inventory in both national and provincial levels.

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Indicators	Achievement
3-1. Improvement for estimating emissions from and removals by categories is documented.	<ul style="list-style-type: none"> Based on the pilot activity, GHG inventory manual and inventory software was developed in waste sector.
3-2. Emission factors and other parameters are improved for the waste sector.	<ul style="list-style-type: none"> Through the pilot activity, calculations of GHG emission and activity data have been improved in waste sector.

3-4. Achievement of Project Purpose

Project Purpose: Capacity of the key ministries and local governments concerned of the Government of Indonesia to formulate climate change policies based on the sound information and approaches is developed.

Most of the indicators of the project purpose for respective SPs have been achieved by this time. RAN/RAD-GRK and RAN-API have been developed and authorized. Background studies have been effectively utilized among stakeholders. (SP-1) Results of vulnerability assessment implemented by BMKG have been shared among related stakeholders. Training program, curriculum, modules and materials for farmer communities on adaptation actions have been developed. Technical guideline on crop insurance has also been developed and utilised. (SP-2) GHG inventory for 2008 was prepared in 2013, and based on this experience and acquired skills, KLHK drafted the GHG inventory of 2010 for Biennial Update Report (BUR) which is under the finalization process⁴. The improvement of estimation methods is documented in the Inventory development report (SP-3)

Indicators	Achievement
SP-1: The capacity of the key ministries and local governments of formulate mitigation actions in a monitored, evaluated and reported manner and integrate adaptation into developing planning is improved.	
1-1. The reports produced by project activities are shared and utilized among stakeholders in Indonesia.	<ul style="list-style-type: none"> The reports of RAD-GRK, RAN-API and background study developed by BAPPENAS have been shared with stakeholders and utilized by counterpart in national and local governments.
SP-2: Capacity to promote climate change adaptation actions in agriculture and other relevant sectors is improved.	
1. Information on adaptation actions is regularly exchanged among concerned ministries (BAPPENAS, BMKG, MOA)	<ul style="list-style-type: none"> Results of vulnerability assessment implemented by BMKG have been shared with related ministries.
2. Document/materials produced in Project are issue in the name of Government of Indonesia.	<ul style="list-style-type: none"> Guidelines for TOT, TOF and crop insurance implementation developed with the support of the Project are developed for the authorization by the Indonesian government.
3. Integration of climate change adaptation into national development planning is achieved.	<ul style="list-style-type: none"> The promotion of crop insurance was stated in RPJMN (2015-2019) MOA Ministerial Degree regarding implementation of crop insurance has been prepared.

⁴ The GHG inventory have not yet been approved because that consensus on GHG emission in the forestry sector has not yet obtained.

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SP-3: GHG inventories are compiled by KLHK on a regular basis in cooperation with key ministries and local governments concerned of the Indonesian government.	
1. National GHG Inventory Development is annually prepared by KLHK.	<ul style="list-style-type: none"> • GHG inventory of 2008 was submitted in March 2013. Also an inventory of 2010 for BUR was drafted.
2. The improvement of estimation method (from lower tier to higher tier, e.g. by improving emission factor and/or activity data or by reporting with appropriate notation key) is documented.	<ul style="list-style-type: none"> • The improvement of estimation method is documented in the GHG inventory manual in the waste sector.

3-5. Prospective on Achievement of the Overall Goal

Overall Goal: Mitigation and adaptation actions for climate change are promoted in Indonesia.

As to overall goal, since the positive factors of improvement in the indicators have been identified, it is predicted to be achieved in future. All 33 provinces have already developed RAD-GRK with the support of the RAN-GRK Secretariat. In North Sumatra and South Sumatra, for example, RAD-GRK has been integrated in their current RPJMD respectively to ensure the implementation. It indicates that the implementation of mitigation actions with allocation of budgets and human resources would contribute to achieve the target of GHG emission reduction in the future. For adaptation, as a confirmed impact of the project support, there is a case that Governor's Instruction of North Sumatra on Adaptation to Extreme Climate Condition as an Effort to Secure Rice Production in North Sumatra: Year 2012-2020 (Number 188.54/05/INST/2012) was issued in North Sumatra Province. The above Instruction has also been integrated to the current provincial RPJMD to ensure the implementation. In addition, local adaptation planning as part of the implementation of RAN-API has also been initiated at 15 local governments through the RAN-API Secretariat.

Indicators	Achievement
1. GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia.	<ul style="list-style-type: none"> • RAD-GRK was integrated in the RPJMD in North Sumatera and South Sumatera to ensure the implementation of mitigation actions as identified in RAD-GRK. • 33 province have already developed RAD-GRK with the support of the RAN-GRK Secretariat,
2. The number of development strategies integrating adaptation in local government is increased.	<ul style="list-style-type: none"> • Support through the RAN-API Secretariat for local adaptation planning as a part of the implementation of RAN-API has started for 15 target local governments. • Governor's Instruction of North Sumatra on Adaptation to Extreme Climate Condition as an Effort to Secure Rice Production was issued, and integrated in the RPJMD in North Sumatera.

3-6. Implementation Process

The followings were revealed as main contributing and constraining factors of the project implementation.

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3-6-1. Contributing Factors

(1) Mainstreaming Support in Accordance with Existing Framework and Process for Policy Making

The Project aims at mainstreaming of climate change to the regular development planning and implementation of the GOI. For mainstreaming, cooperation was promoted through alignment with the existing frameworks and processes for policy planning and evaluation of the GOI, in close coordination with ministries and other stakeholders involved.

(2) Embodiment of RAN-GRK and RAN-API through Comprehensive Support with Several SPs

Through comprehensive support with multiple SPs, implementation of RAN-GRK and RAN-API was embodied. The capacity enhancement on adaptation on farmer level and the introduction of crop insurance under SP-2, for example, are considered as part of the actual implementation of RAN-API. GHG inventory development under SP-3 is also related with RAN-GRK and become a foundation for planning and evaluation of mitigation actions. Also, cooperation between counterparts of SPs is promoted by sharing inputs between SPs to improve project efficiency as well as cross-sectional management of the SPs.

(3) Promotion of Mainstreaming through Projects in Pilot Sites

In supporting the policy, ground testing in the pilot sites is emphasized. Analysing the results locally and sharing lessons, including those from failures and constraints, contributing to the enhancement of the concerned policies. In addition, summarizing experience in the pilot sites as a guideline or training material will enable distributing to other areas in the future.

(4) Sharing Activities in Pilot Sites with Secretariat Support

To promote RAN-GRK and RAN-API, the Secretariat for each was established. These Secretariats coordinate activities in the pilot sites to involved ministries and local resources as well as other development partners. Also, these Secretariats summarize and share information concerning RAN-GRK and RAN-API between stakeholders to produce a synergy, as well as function as inquiry channels from the development partners. The SIGN Center supports in the national GHG inventory development also functions in the same manner.

3-6-2. Constraining Factors

(1) Access of Necessary Data

Though data quality is improving, access to necessary data is still one of the constraint factors for the Project.

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4. Evaluation Results

4-1. Relevance: High

The Project is consistent with Japan's cooperation policy for Indonesia. The Project also addresses development issues of Indonesia by leveraging various schemes to provide comprehensive supports of mitigation and adaptation actions based upon Indonesia's policies.

(1) Priority in National Policy

As shown below, the project purpose is consistent with many national policies. Indonesia declared a voluntary commitment that they will reduce GHG emissions by 26% (or 41% with international support is provided) relative to the BAU by 2020. To fulfil this commitment, "Presidential Regulation No. 61/2011 regarding RAN-GRK was officially announced in September 2011, which was followed by formulation of RAD-GRK in the provinces throughout the country. In December 2011, "Presidential Regulation No. 71/2011 on National GHG Inventory System" was also announced to give guidelines on GHG inventory development at the national level as well as local (province, districts, and city) level.

The RPJMN 2015-2019 has included the implementation of RAN-GRK and RAN-API as well as improvement of spatial planning and introduction of crop insurance.

MOA has conducted pilot crop insurance in 2012 and 2013 in 3 provinces with covering an area of 1,000 hectare of rice fields. To reinforce the state support to farmers, the "Law No. 19 /2013 on the Protection and Empowerment of Farmers" which mandates the development of crop insurance in Indonesia, was legislated on August 2013.

(2) Necessity

GHG emissions in Indonesia are substantial, if including those from deforestation and peat land conversion, and are projected to increase further in the future along with economic development and population growth. At the same time, the country is vulnerable to the adverse impacts of climate change. The objectives of the Project correspond with the Indonesia's effort and challenge to tackle those issues of climate change.

(3) Appropriateness of Project Approach

The Project is composed of three SPs (SP-1, SP-2, and SP-3) and collaboration of multiple counterparts from different ministries and divisions has been producing a synergy of achievements across SPs. (see 4-4. Impact (4) Synergy Effects of Combination of SPs). This proves that the project approach was effective. Further, this project leverages Japan's experience and comparative technical advantage in countermeasures against climate change. The Japanese latest technology on vulnerability assessment, exposure analysis and downscaling were transferred through the training in

Japan. In addition, monthly/seasonal forecasting data of the Japan Meteorological Agency (JMA) is utilized by BMKG and planned to be used of the long-term forecast in future. Japan is one of the UNFCCC Annex I countries and, in addition to creating a correct and highly reliable national GHG inventory every year, has been holding "Workshop on Greenhouse Gas Inventories in Asia (WGIA)" annually to promote regional partnership since 2003 and accumulating expertise necessary for supporting the Project.

(4) Consistency with Support Policy of Japanese Government

"Country Assistance Program for the Republic of Indonesia" of the Ministry of Foreign Affairs of Japan (April 2012) lists "support for improving capability of addressing issues in the Asian region and international society" as one of three significant sites (medium term targets) and declares "support for improving capability of addressing global issues including environment conservation and climate change" as a part of that support.

4-2. Effectiveness: High

Attaining outputs of the SPs contributes to achievement of the project purpose and the relationship between project purpose and outputs is appropriate.

(1) Achievement of Project Purpose

As mentioned in "3-4. Achievement of Project Purpose," the project purpose has been achieved as most indicators has already attained the target level. The guidelines and manuals for promoting RAD-GRK and RAN-API, as well as the results of the background studies have been effectively utilized among stakeholders. (SP-1) Results of vulnerability assessment implemented by BMKG have been shared among related stakeholders. Guidelines and training manuals for farmer communities on adaptation actions and crop insurance have also been utilised. Technical guideline on crop insurance has also been developed and utilised. (SP-2) GHG inventory for 2008 was prepared in 2013, and based on this experience and acquired skills, KLHK drafted the GHG inventory of 2010 for BUR which is under the finalization process. (SP-3)

(2) Relation between Project Purpose and Outputs

Almost all outputs of SPs have been achieved and contributed to achievement of the project purpose. Enhancement of capability of major ministries and agencies as well as local governments for each of the SPs purposes that is, mitigation planning and mainstreaming adaptation to development plan (SP-1), climate change adaptation in the agricultural and related sectors (SP-2), and regular GHG inventory development (SP-3) is indispensable for achieving the target of the whole project.

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(3) Important Assumptions Affecting Achievement of Project Purpose

Important assumptions required for achieving the project purpose include "continuation of relationship between BAPPENAS, BMKG, and MOA," "settlement of counterpart human resources," "continuation of the crop insurance pilot project by the MOA," and "reservation of budget and human resources for GHG inventory development." There were transfers of some counterparts but it was confirmed that the transfer has not affected the achievement of the project purpose.

4-3. Efficiency: High

The Project is implementing efficient project management and addressing additional activities based on the emerging needs of the climate change issues and utilizing local resource person effectively under the support of counterpart ministries and Japanese experts.

(1) Efficiency of Input

The Project is utilizing human resources efficiently by assigning 4 long-term experts to Umbrella unit to manage all SP-1, SP-2 and SP-3 to minimize the number of long-term experts and dispatching short-term experts as required.

BAPPENAS officers expressed that utilization of local resource person (e.g., university staff) promotes activities flexibly addressing local needs and improves communication between the Japanese experts and counterparts, improving efficiency of activities. In addition, management cost of RAD-GRK and RAN-API Secretariat shares with BAPPENAS as well as with other donors for staff assignment. Cost for activities in the pilot sites, such as holding seminars and workshops resulting in promotion of mitigation and adaptation actions are also shared.

Training in Japan provides the counterparts with opportunities to enhance capabilities of the staff to plan climate change counteraction strategy and policy in Indonesia. The contents of the training in Japan are considered by the counterparts to address the needs to develop capabilities required to promote the project activities.

(2) Achievement of Outputs

The Team evaluated that the modifications of PDM based on the recommendations of the Mid-term Evaluation were appropriate for addressing emerging needs of the climate change issues. In spite of this modification of the PDM and additional activities, most of the outputs is expected to be fulfilled within the project period as seen in "3.3 Achievement Outputs".

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4-4. Impact: Relatively High

The one of the indicators of overall goal about adaptation action has already been achieved, and many other positive impacts from a synergy between SPs were revealed at both the national and local levels. However the Team was unable to obtain necessary data to evaluate future possibility of achievement of GHG emission reduction target.

(1) Achievement of Overall Goal

As mentioned in "3-5. Prospective on Achievement of the Overall Goal," the indicators for the Overall Goal are set for mitigation and adaptation.

For the overall goal target "reduction of GHG emission by 26% by 2020", as monitoring and compiling the national GHG emission reduction rate is in progress by BAPPENAS with support of RAN-GRK Secretariat, the national GHG emission data was not available to evaluate the overall goal at this time. However, some improvements were identified in interviews of the evaluation. For instance, MOA explained that they have already achieved the target reduction rate of 2020. South Sumatera, one of the project pilot sites has also positive impact of RAD-GRK on the reduction of GHG emission. As all provinces have already developed RAD-GRK, as well as RAD-GRK has been integrated in the current RPJMD in North Sumatra and South Sumatra, those ensure the implementation of mitigation actions with allocation of budgets and human resources and would contribute to achieve the target of GHG emission reduction in the future.

For adaptation, there is a case that Governor's Instruction of North Sumatra on Adaptation to Extreme Climate Condition as an Effort to Secure Rice Production in North Sumatra: Year 2012-2020 (Number 188.54/05/INST/2012) was issued in North Sumatra Province. The above Instruction has also been integrated to the current provincial RPJMD to ensure the implementation. In addition, local adaptation planning as part of the implementation of RAN-API has also been initiated at 15 local governments through the RAN-API Secretariat.

(2) Ripple Effect

For agricultural water resource management, the TOT and TOF materials and syllabus developed by the MOA through the pilot activities of the Project has been utilized in the Developing Models-Adaptation to Climate Change (PM-API)⁵ provided by the MOA.

The Team identified that some cities and districts in South Sumatera have already implemented the study on the preparation of the GHG inventory in waste sector on their own initiatives.

As the ripple effect, Japanese government, the Ministry of Environment in Japan announced to support for planning adaptation actions with Indonesian government and research institutions, as a

⁵ From the year of 2016, PM-API activities is programed through State budget fund in several cities/districts in Indonesia.

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part of implementation of RAN-API in North Sumatra and East Java.

(3) Other Impacts

The support of RAN-API development (SP1) was reported as a good practice in the annual report of the United Nations Climate Change Framework Convention and Adaptation Committee.

Japanese private sectors are interested in the crop insurance covered by SP-2. Currently, a Japanese insurance company initiated to study on crop insurance with using the BMKG weather indices in Indonesia through the BOP business cooperation promotion (cooperation preparation survey) scheme by JICA.

(4) Synergy Effects of Combination of SP

Executing the Project under a unit (Umbrella) integrating three SPs (SP-1, SP-2 and SP-3) ensures cooperation between multiple ministries and agencies involved, and the Umbrella approach has been producing a synergy of achievements across SPs. As SP-2 composed of 3 outputs, output 1 contributes to providing necessary data for adaptation actions. For instance, with regards to the integration of climate change adaptation to spatial planning (SP-1), the vulnerability assessment using climate change projection data (SP-2) has been attempted in the pilot sites of the spatial planning. For the crop insurance (SP-2), the indemnity based scheme for the payment of insurance is currently employed at the pilot sites, and the weather index model using data from BMKG is also studied (SP-2).

GHG inventory development under SP-3 is also related with RAN-GRK and becomes a foundation for planning and evaluation of mitigation actions (SP-1). The improvement of GHG inventory in the waste sector through pilot activities has also been reflected to the preparation process of GHG inventory at the national level. The progress of RAN-GRK and RAN-API also provided necessary data for the background study of which results were utilized for formulation of RPJMN 2015-2019. BAPPENAS and Umbrella unit have played an important role to synergize the implementation among each SP.

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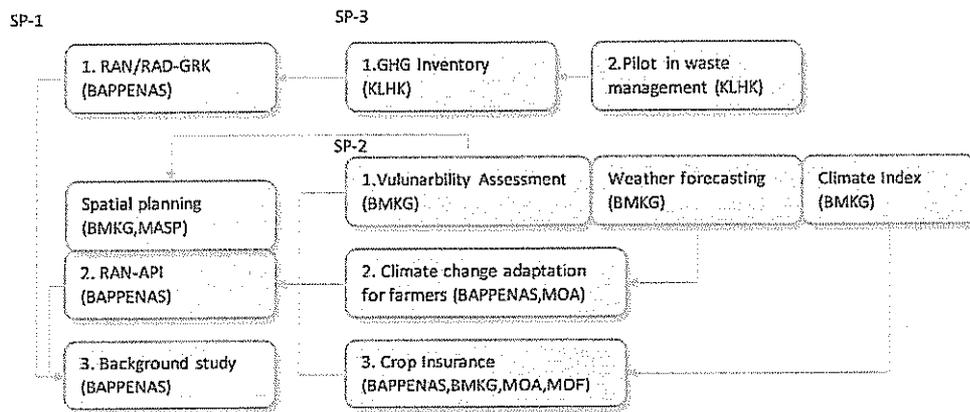


Figure 2: Synergy Effects of SP Activities

As for the vertical cooperation between national and local governments, BAPPENAS collaborates with BAPPEDAs in the pilot activities (SP-1), as well as KLHK collaborates with BHLs for the preparation of GHG inventory at the local level (SP-3). Especially RAN-GRK, RAN-API Secretariats in BAPPENAS and SIGN Center in KLHK supported by the Project have contributed to communicating activities in the pilot sites to promote relation between national and local governments.

4-5. Sustainability: Relatively High

As most of the project activities has already been integrated into the national and local policies, most of the aspects of sustainability of the Project are expected to be fulfilled. In the technical aspect, continuous capacity building of counterparts is necessary to respond to emerging needs.

(1) Political Aspect

In RPJMN (2015-2019) established during the project term, enhancement of spatial planning and introduction of the crop insurance were clearly mentioned in addition to execution of RAN-GRK and RAN-API, reflecting the success of the Project. Also in the pilot site integration to the policy such as inclusion of RAN-GRK into the provincial development plan RPJMD was made.

Further, even though new government launched in 2014, policy of climate change in the RPJMN2015-2019 has taken over to the new administration. The mainstreaming of climate change into the policy supported by the Project contributed to continuance of resource allocation for climate change actions.

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(2) Organizational Aspect

RAN-GRK and RAN-API Secretariats for SP-1 are managed by BAPPENAS with support by the Project and other development partners. On the other hand, RAN-GRK and RAN-API are supported by each member from line ministries and institutions belonging to the Technical Team, and technical support for the Technical Team members is provided from the RAN-GRK and RAN-API Secretariats. As the capacity has been accumulated in the Technical Team, continuance of activities is expected.

The SIGN Center established according to "Presidential Regulation 71/2011 on GHG Inventory" for SP3 has an office in KLHK, and human resources are also allocated. SIGN Center is not an ad hoc unit, but embedded in the Division of GHG Inventory under Directorate for Mitigation and Atmospheric Function Preservation in the existing structure of organization. SIGN Center will be embedded in the Directorate for GHG Inventory and MRV) in the upcoming new structure of KLHK.

(3) Financial Aspect

MOA will start to implement TOF based on the results of Project pilot activity for agricultural water resource management in SP-2 with own regular budget. Also proposals concerning irrigation improvement and repair in each pilot province was submitted under responsibility of the MOA, and it was decided to execute them with budget (4.5 billion rupiahs) of 2KR (Second Kennedy Round).

Concerning the crop insurance, the budget (IDR 150 billion) for MOA to expand the pilot project in other provinces has been approved by the House of Representatives (DPR). Nevertheless, the procedure of budget allocation has still been discussed between MOA and MOF. For the fund of GHG inventory development, budget from the Global Environment Facility (GEF), multilateral and bilateral donors is allocated for developing National Communication.

(4) Technical Aspect

Technical transfer to counterparts was appropriately conducted in the involved institutions of the national government for SP-1. There were only few personnel changes throughout the project term and it has been confirmed.

For SP-2, technical transfer to BMKG staff for downscaling, weather model was carried out, however, just 2 to 4 staff are able to implement the vulnerability assessment which requires ability of sharing information with external institutions. It is still required for BMKG to communicate information to external institutions and to improve skills and accumulate more experiences. On the other hand, the process of the Valuable assessment, Exposer analysis, and Downscaling has been integrated to the Standard Operational Procedure (SOP), an internal rule of BMKG.

For SP-3, necessary skills and knowledge development of the GHG inventory development was successfully transferred to KLHK staff as well as assistant staff of SIGN Center at the national level.

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At the provincial level, BLH staff has also sufficient knowledge to develop GHG inventory in the wastes sector, and currently BLH also enable to advise city and district by supporting local resource person.

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5. Recommendations and Lessons Learned

5-1. Recommendations

5-1-1. Recommendation before end of the Project

(1) Completion of Remaining Activities

Project activities listed in the table below are planned until the completion of the project (October 2015). It is required to execute these activities during the remaining project term.

SP	Future activity	Schedule
SP-1	• Update of the online system of MER for RAN-GRK and RAD-GRK	August
	• Concept note for mainstreaming of adaptation to development plan at Bali and East Java as a part of the implementation of RAN-API	July
	• Development of the Integration of Climate Change Adaptation into Spatial Planning guideline	August
SP-2	• National Training Workshop for Capacity Development on Downscaling Climate Change Projection.	August
	• Finalization of training guideline for farmers	August
	• Completion of roadmap for crop insurance	August
SP-3	• Additional surveys to increase accuracy of activity data and local emission factor for inventory in the waste area	July
	• Finalization of policy recommendation for national GHG inventory	July

5-1-2 Recommendation after end of the Project

(1) Disseminating Pilot Activity Results to Other Areas

The Project emphasises the implementation of pilot activities that validate and optimize policy and policy instruments for replication or scaling up to other areas. The lessons aggregated through pilot activities have also been summarized as guidelines and manuals. The further promotion of climate change mainstreaming in the policy at the national and local level by utilizing these results and spreading them to other areas is required. Given the validity of the results from the pilot activities, selection criteria (geographical and social factors etc.) and necessary number of participants (sampling size) should be carefully considered.

(2) Strengthening the Organizations and Coordination for Promoting Climate Change Policy

Particularly, for promoting climate change policy which contains cross-cutting issues, the importance of facilitating cross-sectorial coordination needs to be emphasized. The Project was able to strengthen collaboration between related ministries/agencies, as well as between the national and local governments. Maintaining such horizontal and vertical collaboration is considered indispensable for the future achievement of the project overall goal. It is important to allocate necessary budget and human resource continuously for the sustainable implementation of climate

change actions.

5-2. Lessons Learned

(1) Effectiveness of Mainstreaming for Sustainable Development

Mainstreaming the climate change actions into the national and local policies supports sustainability of actions for climate change. Project aimed at mainstreaming of climate change to development plans at both national and local levels in Indonesia. The mainstreaming is one of the important assumptions to secure the budget and human resources for the climate change actions in the policy, and increases the possibility to carry over the climate change policy to the new administration in spite of the political changes.

(2) Comprehensive Approach (Umbrella)

Each SP was initially requested separately, however SPs were integrated under a unit (Umbrella) that ensures cooperation between multiple ministries and agencies involved. The cooperation of multiple ministries and agencies has been producing a synergy across SPs to address climate change which contains cross-cutting issues.

(3) Emphasise Ground-Testing at the Pilot Sites

The implementation of the ground testing in pilot sites contributes to validating and optimizing policy and policy instruments for replication or scaling up to other areas, and strengthening feasibility of the policy. The results from the ground testing may also contribute to convincing decision makers and facilitating mainstreaming process to the development plans. Given the validity of the results from the ground testing, selection criteria (geographical and social factors etc.) and necessary number of participants of pilot sites should be carefully considered at the planning stage.

(4) Horizontal and Vertical Coordination

Since the climate change is cross-sectorial issue, coordination of relevant sectors is requisite. The Project has demonstrated the strengthening communication and coordination among line ministries/agencies, and between central and local government levels, in particular in the course of RAN/RAD-GRK and GHG inventory.

5-3. Others

Through the discussion, the Indonesian side suggested that the next phase of Project is expected to be initiated with minimum interval after termination of the Project.

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ANNEX 1: PDM

PDM (version 1.0) / Umbrella

Project Title : Project of Capacity Development for Climate Change Strategies in Indonesia

Project Period : October 2010 – October 2015 (Five Years)

Target Area : Nationwide, Pilot Provinces

Target Group : BAPPENAS, BMKG, MOA, KLH, and concerned local governments

Date: July 31st, 2013

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> 1. GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. 2. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> 1. National GHG Inventory Report 2. Development plans produced by local governments 	
<p>Project Purpose Capacity of the key ministries and local governments concerned of the Government of Indonesia to formulate climate change policies based on the sound information and approaches is developed.</p>	<p>* According to each Sub-Project's PDM</p>	<p>* According to each Sub-Project's PDM</p>	<p>Projects and programmes for climate change mitigation and adaptation in Indonesia are steadily carried out by development partners and Indonesian government.</p>
<p>Outputs 1-1 The capacity to formulate mitigation actions in a monitored, evaluated, and reported manner in the pilot sector(s) or sub-sector(s) is enhanced. 1-2 The capacity to formulate the adaptation action plans, to integrate adaptation into development planning, and to monitor, evaluate and report on the progress of adaptation is enhanced. 1-3 The background study of Mid-term National Development Plan (RPJMN) 2015-2019 for the relevant sectors (1) Food and Agriculture, 2) Marine and Fishery, 3) Forestry and Water Resources Conservation, 4) Energy, Minerals and Mining, 5) Environmental Affairs) is conducted and its reports are utilized for the formulation of RPJMN 2015-2019.</p>	<p>* According to each Sub-Project's PDM</p>	<p>* According to each Sub-Project's PDM</p>	<p>Indonesian government secures sufficient budget to conduct activities according to each PDM as counterpart.</p>
<p>2-1 Capacity of analysis on climate variability and change and of its communication is enhanced at BMKG. 2-2 Climate change adaptation by farmer communities is practiced to secure rice production. 2-3 Comprehension of the importance of crop insurance in agricultural protection is improved among stakeholders. 3-1 National system for preparing national GHG inventories</p>			

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ANNEX 1: PDM

is designed.
 3-2 Capacity to periodically and systematically manage data necessary for national GHG inventories is enhanced.
 3-3 Understanding on accuracy, transparency and reliability of GHG inventories is improved for each sector (energy; industrial processes; agriculture; land use, land-use change and forestry [LULUCF]; and waste) among key ministries and local governments.

Activities

* Please refer to the PDMs of each Sub-Project.

Inputs

- Japanese side
1. Experts
 - Long-term experts
 - Short-term experts
 - Local experts
 2. Training in Japan
 - Long-term training
 - Short-term training
 3. In-country training
 4. Provision of equipment
 5. Local expenses for the project activities, including development of the Website and promotional materials of the Project

- Indonesian side
1. Counterpart Assignment
 - Project Director (BAPPENAS)
 - Sub-Project Directors
 - Sub-Project Managers
 - Other counterpart personnel
 2. Provision of the project offices and facilities necessary for the Project implementation
 3. Others
 - Administrative and operational expenses
 - Running costs for electricity, water, etc.

Majority of the counterpart personnel trained by the Project are retained in their respective positions.

Pre-condition
 Understanding and cooperation for the project activities are obtained from the key ministries and local governments concerned of the Indonesian government.

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ANNEX 1: PDM

PDM (version 2.0) / Sub-Project 1

Project Title: Sub-Project 1: Integration of Climate Change Mitigation and Adaptation into National Development Planning

Project Period: October 2010 - October 2015 (Five Years)

Target Area: Nationwide, Pilot Provinces including North Sumatra, South Sumatra and West Kalimantan

Target Group: BAPPENAS, key ministries and agencies of the national government, concerned local governments

Date: June 21th, 2013

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> National GHG Inventory Report Development plans produced by local governments 	/
<p>Project Purpose The capacity of the key ministries and local governments to formulate mitigation actions in a monitored, evaluated and reported manner and integrate adaptation into development planning is improved.</p>	<ol style="list-style-type: none"> The reports produced by project activities are shared and utilized among stakeholders in Indonesia. 	<ul style="list-style-type: none"> Project progress reports Workshop reports Interview with related stakeholders The Mid-Term National Development Plan (RPJMN) 2015-2019 	<ol style="list-style-type: none"> Projects under JICA's climate change cooperation program are steadily carried out. Projects and programs for climate change mitigation and adaptation in Indonesia are steadily carried out.
<p>Outputs 1. The capacity to formulate mitigation actions in a monitored, evaluated and reported manner in the pilot sector(s) or sub-sector(s) is enhanced.</p>	<ol style="list-style-type: none"> 1-1. Understanding of potential types of nationally appropriate mitigation action (NAMA) and associated measurement, reporting and verification (MRV) submitted by developing country Parties to the UNFCCC is obtained. 1-2. Understanding of potential types of NAMA and associated MRV in the pilot sector(s) or sub-sector(s) in Indonesia is obtained. 1-3. MRV is incorporated into the formulation of NAMA in the pilot sector(s) or sub-sector(s). 1-4. Guideline of the Provincial Action Plan for GHG Emission Reduction (RAD-GRK) is authorized by 	<ul style="list-style-type: none"> The matrixes formulated in the activity 1.1.2 and 1.1.6 RAD-GRK produced in the activity 1.2.6 The guideline developed in the activity 1.2.7 Report of monitoring developed in the activity 1.2.9 	

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ANNEX 1: PDM

<p>2. The capacity to formulate the adaptation action plans, to integrate adaptation into development planning, and to monitor, evaluate and report on the progress of adaptation is enhanced.</p>	<p>BAPPENAS. 1-5. RAD-GRK is issued as the governor decree in pilot provinces. 1-6. Report of monitoring of the National Action Plan for GHG Emission Reduction (RAN-GRK) and RAD-GRK is submitted to BAPPENAS in pilot provinces.</p> <p>2-1. Adaptation related policy(ies) /instruction(s) in selected pilot area(s) is(are) officially issued. 2-2. The draft Strategy for Mainstreaming Adaptation into Developing Planning is accepted by BAPPENAS. 2-3. The National Action Plan for Climate Change Adaptation (RAN-API) is officially issued. 2-4. Report(s) on monitoring and evaluation of implementation of RAN-API in the selected pilot activity(ies) is(are) submitted to BAPPENAS.</p>	<ul style="list-style-type: none"> - Officially issued policy(ies) /instruction(s) produced in the activity 2.1.4 - Officially accepted Strategy for Mainstreaming Adaptation into Developing Planning produced in the activities 2.2.2 - Officially issued RAN-API produced in the activities 2.3.2 - Project reports 	
<p>3. The background study for the Mid-Term National Development Plan (RPJMN) 2015-2019 for the relevant sectors (1) Food and Agriculture, 2) Marine and Fishery, 3) Forestry and Water Resources Conservation, 4) Energy, Minerals and Mining, 5) Environmental Affairs) is conducted and its reports are utilized for the formulation of RPJMN 2015-2019.</p>	<p>3-1. Reports of the background study of RPJMN 2015-2019 for the relevant sectors are approved by BAPPENAS. 3-2. RPJMN 2015-2019 is approved.</p>	<ul style="list-style-type: none"> - Approved reports produced in the activity 3.1.5 - Approved RPJMN 2015-2019 	

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ANNEX 1: PDM

Activities	Inputs	Assumptions
<p><u>1.1 Support for NAMA development</u></p> <p>1.1.1 Collect NAMA submitted by the Non Annex-1 countries responding to the Copenhagen Accord, and categorize NAMA by type (strategies, programs, or project, national or local; etc.).</p> <p>1.1.2 Formulate a matrix of potential types of NAMA and associated MRV in terms of purposes, indicators, implementation structures, merits and demerits, etc. in line with international discussions.</p> <p>1.1.3 Develop criteria for selecting pilot provinces and pilot sector(s) or sub-sector(s) from mitigation actions relating to Promotion of Energy Efficiency, and Reduction in Solid and Liquid Waste.</p> <p>1.1.4 Select pilot provinces and pilot sector(s) or sub-sectors based on the criteria.</p> <p>1.1.5 Summarize existing key policies, strategies and plans related to mitigation in the selected pilot provinces in the selected pilot sector(s) or sub-sector(s).</p> <p>1.1.6 Formulate a matrix in the selected pilot provinces in the selected pilot sector(s) or sub-sector(s) based on the format of the matrix prepared in the Activity 1.1.2.</p> <p>1.1.7 Conduct a workshop for the dissemination of the matrix to stakeholders in Indonesia.</p> <p>1.1.8 Identify needs and priorities to formulate and implement NAMA in the selected pilot provinces in the selected pilot sector(s) or sub-sector(s).</p> <p>1.1.9 Make a shortlist of NAMA based on the needs and priorities in the selected pilot provinces in the selected pilot sector(s) or sub-sector(s).</p>	<p><u>Japanese side</u></p> <p>1. Experts</p> <ul style="list-style-type: none"> - Long-term experts - Short-term experts - Local experts <p>2. Assistants</p> <ul style="list-style-type: none"> - Local project assistants <p>3. Training in Japan</p> <ul style="list-style-type: none"> - Long-term training (4 counterpart personnel) - Short-term training <p>4. In-country training</p> <p>As necessary</p> <p>5. Provision of equipment</p> <p>As necessary</p>	<p>Majority of the counterpart personnel trained by the Sub-Project are retained in their respective positions.</p>
<p><u>1.2 Support for RAN-GRK and RAD-GRK</u></p> <p>1.2.1 Support for the development of RAD-GRK related guidelines.</p> <p>1.2.2 Promote the socialization of RAN-GRK and RAD-GRK guidelines to stakeholders.</p> <p>1.2.3 Support for the establishment of the RAN-GRK Secretariat.</p> <p>1.2.4 Provide managerial, technical and administrative support for the operation of the RAN-GRK Secretariat.</p> <p>1.2.5 Facilitate every provincial government for development of RAD-GRK by providing comprehensive support through the RAN-GRK Secretariat.</p> <p>1.2.6 Develop RAD-GRK in the selected pilot provinces.</p> <p>1.2.7 Develop a guideline for monitoring, evaluation and reporting (MER) of the progress of RAN-GRK and RAD-GRK</p> <p>1.2.8 Promote the socialization of the guideline for MER.</p> <p>1.2.9 Support for the implementation of MER in the selected pilot provinces.</p> <p>1.2.10 Support for the NAMA development process in national level, based on the results of activities 1.1.1-1.1.9 and 1.2.1-1.2.9.</p>	<p><u>Indonesian side</u></p> <p>1. Counterpart Assignment</p> <ul style="list-style-type: none"> - Project Director - Project Manager - Project Staff <p>2. Provision of the project offices and facilities</p> <p>As necessary</p> <p>3. Administrative and operational expense</p> <p>As necessary</p>	<p>Pre-condition</p> <p>Understanding and cooperation for implementation of the Sub-Project 1 are obtained from the key ministries and local governments concerned of the Indonesian government.</p>
<p><u>2.1 Development of adaptation related policy(ies)/ instruction(s) in selected pilot area(s)</u></p> <p>2.1.1 Develop criteria for selecting pilot area(s) for adaptation activity.</p> <p>2.1.2 Select (a) pilot area(s) based on the criteria.</p>		

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ANNEX 1: PDM

	<p>2.1.3 Support in establishing and operating a working group on adaptation in the selected pilot area(s).</p> <p>2.1.4 Develop (a) a draft adaptation related policy(ies) /instruction(s) through the process of the working group in the selected pilot area(s) and submit to the provincial government of the selected pilot area(s).</p> <p>2.1.5 Convene a workshop to disseminate the adaptation related policy(ies) /instruction(s) to stakeholders.</p> <p>2.1.6 Support follow-up activity(ies) for the adaptation related policy(ies) /instruction(s).</p> <p>2.2 <u>Development of the draft Strategy for Mainstreaming Adaptation into Developing Planning</u></p> <p>2.2.1 Establish the Advisory Council of the Strategy for Mainstreaming Adaptation into National Development Planning</p> <p>2.2.2 Develop a draft of the Strategy for Mainstreaming Adaptation into National Development Planning and submit to BAPPENAS.</p> <p>2.2.3 Conduct a workshop to disseminate the Strategy for Mainstreaming Adaptation into National Development Planning to stakeholders.</p> <p>2.3 <u>Development and implementation of the National Action Plan for Climate Change Adaptation (RAN-API)</u></p> <p>2.3.1 Establish an expert team for development process of RAN-API.</p> <p>2.3.2 Facilitate the development process of RAN-API.</p> <p>2.3.3 Develop a draft of RAN-API and submit to BAPPENAS.</p> <p>2.3.4 Conduct a workshop to disseminate RAN-API to stakeholders.</p> <p>2.3.5 Select (an) appropriate pilot activity(ies) for MER on the implementation of RAN-API.</p> <p>2.3.6 Conduct (a) pilot activity(ies) for MER on the implementation of RAN-API.</p> <p>2.3.7 Produce report(s) on monitoring and evaluation of the implementation of the RAN-API in the selected pilot area(s) and submit to BAPPENAS.</p> <p>2.3.8 Support for operation of a secretariat for climate change, which includes secretariat functions of RAD-GRK and RAN-API.</p>	
	<p>3.1 <u>Conduct and follow-up of the background study for RPJMN 2015-2019</u></p> <p>3.1.1 Develop a work plan of the background study for RPJMN 2015-2019 with the targeted Directorates of BAPPENAS (1) Food and Agriculture, 2) Marine and Fishery, 3) Forestry and Water Resources Conservation, 4) Energy, Minerals and Mining, 5) Environmental Affairs).</p> <p>3.1.2 Establish study teams in those sectors relevant to the above Directorates.</p> <p>3.1.3 Review the current RPJMN (2010-2014) for those sectors relevant to the above Directorates.</p> <p>3.1.4 Collect and maintain relevant data and information for the background study.</p> <p>3.1.5 Develop reports of the background study and submit to BAPPENAS.</p> <p>3.1.6 Convene (a) workshop(s) to disseminate the final reports of background study to stakeholders.</p> <p>3.1.7 Support for effective utilization of the final reports of the background study as input for the formulation of RPJMN 2015-2019.</p>	

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PDM (version 2.0) / Sub-Project 2

Project Title: Sub-project 2: Capacity Development for Climate Change Adaptation Actions in Agriculture and Other Relevant Sectors

Project Period: June 2013 – October 2015 (29 months)

Target Area: Jakarta (Project Office) and Pilot Project Areas

Target Group: Direct Beneficiary Group: BAPPENAS, BMKG, MOA, and concerned local governments

Date: June 17th, 2013

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local government is increased. 	<ol style="list-style-type: none"> National GHG Inventory Report Development plans produced by local governments 	<p>1. Projects under JICA's climate change cooperation program are steadily carried out. 2. Projects and programs for climate change mitigation and adaptation in Indonesia are steadily carried out.</p>
<p>Project purpose Capacity to promote climate change adaptation actions in agriculture and other relevant sectors is improved.</p>	<ol style="list-style-type: none"> Information on adaptation actions is regularly exchanged among concerned ministries (BAPPENAS, BMKG, MOA). Document/materials produced in Project are issued in the name of Government of Indonesia. Integration of climate change adaptation into national development planning is achieved. 	<ul style="list-style-type: none"> Project report Document publication Next mid-term development planning document 	
<p>Outputs 1. Capacity of analysis on climate variability and change and of its communication is enhanced at BMKG.</p>	<ol style="list-style-type: none"> 1-1. A lessons-learned report for improving vulnerability assessment is produced. 1-2. Skills for seasonal weather forecasting and its communication are obtained by the training participants and evaluated. 1-3. At least two BMKG staff members are engaged as their regular operational tasks in producing information related to exposure to climate change. 1-4. A study report is produced on climate impacts and agriculture. 	<ul style="list-style-type: none"> Lessons learnt report Evaluation report Staffing of BMKG Study report 	<p>Collaboration among implementing agencies (BAPPENAS, BMKG, MOA) is sustained.</p>
<p>2. Climate change adaptation by farmer communities is practiced to secure rice production.</p>	<ol style="list-style-type: none"> 2-1. Monthly/weekly local weather information is utilized by WUA, extension workers and other stakeholders. 2-2. Good practices on water management and rain water harvesting are tested on the ground at the pilot sites. 2-3. Recommendation on the way-forward for good practices on climate resilient agricultural development is developed and agreed. 	<ul style="list-style-type: none"> Report on pilot activities on the ground Project report 	
<p>3. Comprehension of the importance of crop insurance in agricultural protection is improved among stakeholders.</p>	<ol style="list-style-type: none"> 3-1. Result of the pilot study is presented by the agricultural officials at a national policy discussion 	<ul style="list-style-type: none"> Policy memo General guideline and technical 	

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	meeting.	guidebook	
<p>Activities</p> <p>1.1 <u>Case study of vulnerability assessment on Bali (Completion of the initial SP-2 activities agreed in Sep 2010)</u></p> <p>1.1.1 Identify BMKG staff members for GCM downscaling, GIS and statistics trainings in Indonesia.</p> <p>1.1.2 Conduct the above trainings in Indonesia.</p> <p>1.1.3 Develop a vulnerability assessment report and vulnerability map on Bali as a case study.</p> <p>1.1.4 Summarize lessons learnt from the case study and understand its application potentials, constraints and uncertainties for vulnerability assessment.</p> <p>1.1.5 Develop technical manuals on vulnerability assessment.</p> <p>1.1.6 Conduct additional training on GCM downscaling in Japan and its follow-up in Indonesia.</p> <p>1.2 <u>Training on seasonal weather forecasting and its communication</u></p> <p>1.2.1 Identify the training needs to improve skills related to seasonal weather forecasting particularly in the area of agriculture, including communication skills of weather information with farmers.</p> <p>1.2.2 Identify BMKG's trainee candidates.</p> <p>1.2.3 Carry out the training in Japan and its follow-up in Indonesia.</p> <p>1.2.4 Develop a training report.</p> <p>1.3 <u>Practice of vulnerability assessment as BMKG's regular tasks</u></p> <p>1.3.1 Support the BMKG's gap assessment on its current and required capacity to meet the policy needs of ministries concerned.</p> <p>1.3.2 Draft a gap assessment report.</p> <p>1.3.3 Have consultation meetings with concerned ministries/agencies about the role of BMKG in vulnerability assessment.</p> <p>1.3.4 Develop regular operational tasks in BMKG for vulnerability assessment.</p> <p>1.3.5 Support the operation of regular operational tasks above in BMKG as necessary.</p> <p>1.4 <u>Study on climate impacts and agriculture</u></p> <p>1.4.1 Identify the needs and participant(s) for study</p> <p>1.4.2 Develop a study proposal on climate impacts and agriculture including climate index.</p> <p>1.4.3 Carry out the above study.</p> <p>1.4.4 Develop a study report including lessons learnt.</p> <p>2.1 <u>Weather and climate information at farmer level</u></p> <p>2.1.1 Select the pilot sites in the target provinces (East Java, South Sulawesi, West Java, and Central Java) based on the criteria including their readiness to start pilot activities by the beginning of next wet season.</p> <p>2.1.2 Establish AWS/simple climate recorder with WUA in the pilot sites.</p> <p>2.1.3 Provide WUA, extension workers and other stakeholders with training on weather information and data collection.</p> <p>2.1.4 Develop capacity for WUA, extension workers and other stakeholders to understand and act on monthly/weekly local weather forecast for the pilot sites.</p> <p>2.2 <u>Pilot testing on the ground at farmer level for climate change adaptation including water management and rain water harvesting</u></p> <p>2.2.1 Conduct a detailed study for pilot testing on the ground for climate change adaptation including water management and rain water harvesting in the pilot sites identified in the activity 2.1.1.</p>	<p>3-2. A general guideline and technical guidebook on crop insurance is developed.</p> <p>3-3. A range of agricultural risk mitigation instruments is listed and evaluated.</p>	<p>Inputs</p> <p>Japanese side</p> <p>1. Experts</p> <ul style="list-style-type: none"> - Long-term expert(s) - Short-term experts - Local experts <p>2. Training in Japan</p> <ul style="list-style-type: none"> - Short-term training <p>3. Provision of Equipment</p> <p>4. Local Expenses of project activities</p> <ul style="list-style-type: none"> - Operational expenses as necessary <p>Indonesian Side</p> <p>1. Counterpart Assignment</p> <ul style="list-style-type: none"> - Project Director (Director, Directorate of Food and Agriculture, BAPPENAS) - Project Manager for Output 1 (Director, PUSPIKU, BMKG) - Project Manager for Output 2 (Director, Directorate of Irrigation Water Management, MOA) - Project Manager for Output 3 (Director, Directorate of Agricultural Finance, MOA) - Staff as project counterparts <p>2. Provision of the Project Office and facilities necessary for the project implementation</p> <p>3. Administrative and operational expenses</p> <ul style="list-style-type: none"> - Cost sharing of climate recorders and water management facilities for pilot sites - Other operational expenses 	<p>Majority of BMKG counterparts trained in the Project are retained in their positions.</p> <p>MOA continues the pilot activities on crop insurance including the one in East Java.</p> <p>Pre-Condition</p> <p>Extension of the Project is agreed and started well in advance of the next rainy season for adequate preparation of pilot activities.</p>

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<p>2.2.2 Prepare a proposal based on the above study in consultation with MOA for the implementation of pilot testing on the ground.</p> <p>2.2.3 Based on the proposal, provide WUA, extension workers and other stakeholders with trainings on adaptation practices, including water management and rain water harvesting to test them on the ground.</p> <p>2.2.4 Monitor, evaluate and report the above implementation.</p> <p>2.3 <u>Communication with local government and multi-stakeholders for climate change awareness</u></p> <p>2.3.1 Plan and conduct a study visit for good practices on climate resilient agricultural development.</p> <p>2.3.2 Compile and document lessons learnt based on the activities 2.1 and 2.2.</p> <p>2.3.3 Organize focus group discussions on the above information at national and local levels.</p> <p>2.3.4 Have a series of consultations with relevant stakeholders including local government, NGOs and media.</p> <p>2.3.5 Prepare a recommendation on the way-forward for good practices on climate resilient agricultural development.</p> <p>3.1. <u>Pilot study in East Java</u></p> <p>3.1.1 Identify proper pilot site(s) in the target province.</p> <p>3.1.2 Organize focus group discussions with agricultural officials including extension workers at provincial/regency/village level on the practice of crop insurance.</p> <p>3.1.3 Facilitate trainings for farmers to understand climate information and weather forecasts to improve farm risk management.</p> <p>3.1.4 Identify applicant farmers for the pilot crop insurance in East Java conducted by MOA.</p> <p>3.1.5 Support the implementation of the pilot crop insurance in East Java.</p> <p>3.1.6 Prepare a technical review report based on the pilot study.</p> <p>3.2 <u>Study on a range of agricultural risk mitigation instruments, including various insurance models</u></p> <p>3.2.1 Conduct a study on a range of agriculture risk mitigation instruments.</p> <p>3.2.2 Conduct a desk-top analysis with field surveys on various crop insurance models (i.e. cost-of-production base, yield base, weather-index base) for specific agro-ecosystem and different agricultural commodities.</p> <p>3.2.3 Plan and conduct a study visit for good practices on climate resilient agricultural development.</p> <p>3.2.4 Hold consultation meetings with the insurance industry and relevant stakeholders during the analysis.</p> <p>3.2.5 Develop a general guideline and technical guidebook on crop insurance, incorporating the information produced in project activities.</p> <p>3.3 <u>Dissemination of information on agricultural insurance</u></p> <p>3.3.1 Organize promotion meetings for the insurance industry on crop insurance.</p> <p>3.3.2 Carry out assessment to examine factors/fundamentals of crop insurance such as coverage rate, policy premium, definition of claim, and structure of insurance tariff rate, incorporating the feedback from activities 3.1 and 3.2.</p> <p>3.3.3 Assist policy discussion meetings at national and local levels on crop insurance to share the information produced in project activities.</p> <p>3.3.4 Provide technical inputs in terms of crop insurance for the development of Ministerial Decree and Technical Guideline in respect to the Farmer Empowerment and Protection Bill.</p>	
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Abbreviations: BAPPENAS (National Development Planning Agency), BMKG (Meteorological, Climatological and Geophysical Agency), PUSPIKU (Center for Climate Change and Air Quality), MOA (Ministry of Agriculture), WUA (Water User Association), BAU (Business as Usual), AWS (Automatic Weather Station), GCM (Global Climate Model), GIS (Geographic Information System), and GHG (greenhouse gas)

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PDM (version 1.0) / Sub-Project 3

Project Title : Sub-Project 3: Capacity Development for Developing National GHG Inventories

Project Period : April 2011 – October 2015 (Four years and six months)

Target Area : Nationwide, pilot provinces including North Sumatra and South Sumatra

Target Group : KLH, key ministries, local governments and other concerned organizations

Date : July 11, 2013

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<p>3. GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. 4. The number of development strategies integrating adaptation in local governments is increased.</p>	<p>3. National GHG inventory report 4. Development plans produced by local governments</p>	/
<p>Project Purpose National greenhouse gas (GHG) inventories are compiled by KLH on a regular basis in cooperation with key ministries and local governments concerned of the Indonesian government.</p>	<p>1. National GHG Inventory Development is annually prepared by KLH. 2. The improvement of estimation method (from lower tier to higher tier, e.g. by improving emission factor and/or activity data or by reporting with appropriate notation key) is documented.</p>	<p>- Annual Progress Report on National GHG Inventory Development - A national GHG inventory improvement plan</p>	<p>Projects, programmes, domestic laws regarding national GHG inventories and climate change mitigation in Indonesia are steadily carried out by development partners and Indonesian government.</p>
<p>Outputs 1. National system for preparing national GHG inventories is designed. 2. Capacity to periodically and systematically manage data necessary for national GHG inventories is enhanced. 3. Understanding on accuracy, transparency and reliability of GHG inventories is enhanced for each sector (energy, industrial processes; agriculture; land use, land-use change and forestry [LULUCF]; and waste) among key ministries and local governments.</p>	<p>1-1. Procedure for inventory compilation is documented. 1-2. Procedure for quality assurance/ quality control (QA/QC) is documented. 1-3. Institutional arrangement for preparation of national GHG inventories is documented. 2-1. National GHG inventory data is properly archived and maintained. 3-1. Improvement for estimating emissions from and removals by categories is documented. 3-2. Emission factors and other parameters are improved for the waste sector.</p>	<p>- QA/QC Plan included in the Annual Progress Report on National GHG Inventory Development - Data file for national GHG inventories - A national GHG inventory improvement plan - Project reports</p>	<p>Indonesian government secures sufficient budget and human resources to prepare national GHG inventories on a periodical basis.</p>

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ANNEX 1: PDM

Activities	Inputs	Indonesian side	Majority of the counterpart personnel trained by the Project are retained in their respective positions.
<p>1-1 Conduct workshops/trainings for acquiring general knowledge on preparation of national GHG inventories.</p> <p>1-2 Examine the existing system for preparing national GHG inventories and assess current capacity of the KLH and other relevant organizations involved in the preparation of the GHG inventories.</p> <p>1-3 Consider methods for QA/QC on cross-cutting issues of national GHG inventories.</p> <p>1-4 Examine a procedure for preparation of national GHG inventories.</p> <p>1-5 Examine institutional arrangements for preparing national GHG inventories.</p> <p>1-6 Document the improvements of national system for national GHG inventory preparation, including its institutional arrangement.</p> <p>1-7 Conduct workshop for dissemination of the national system.</p> <p>1-8 Facilitate discussions on functional improvement and institutional arrangement concerning environmental policy-oriented research activities.</p> <p>1-9 Document and submit the result of the discussion in the activity above.</p> <p>2-1 Support in collecting and compiling data necessary for national GHG inventories from relevant ministries, local governments and other concerned organizations.</p> <p>2-2 Develop data flow including work sheets and a database, consisting of file systems, for national GHG inventories.</p> <p>2-3 Compile national GHG inventories with time-series consistency.</p> <p>2-4 Plan and implement QA/QC activities on cross-cutting issues for national GHG inventories.</p> <p>2-5 Prepare the Annual Progress Report on National GHG Inventory Development, including procedures of inventory compilation methodologies and QA/QC activities.</p> <p>2-6 Develop a website for disseminating inventory reports.</p> <p>2-7 Prepare a national GHG inventory improvement plan.</p> <p>3-1 Conduct technical workshops/trainings on preparation and improvement (i.e. methods, data, assumptions and worksheets) for each sector to improve the accuracy, transparency, and reliability of the national GHG inventories.</p> <p>3-2 Study methods for preparing activity data and emission factors as well as for implementing data compilation and QA/QC activities for each sector of national GHG inventories.</p>	<p>Japanese side</p> <p>1. Personnel</p> <p>Long-term experts</p> <p>Chief Advisor</p> <p>Project Coordinator</p> <p>Sub-Chief Advisor/GHG Inventory</p> <p>Short-term experts</p> <p>Short-term experts will be dispatched in accordance with the needs for the effective implementation of the Project.</p> <p>Local resources</p> <p>-Project Assistants</p> <p>As necessary</p> <p>2. Short-term training of counterpart personnel in Japan and/or third countries</p> <p>3. In-country training</p> <p>4. Provision of equipment</p> <p>5. Local expenses for the project activities including promotional materials of the Project</p>	<p>Indonesian side</p> <p>1. Personnel</p> <p>Project Director</p> <p>Project Manager</p> <p>Counterparts</p> <p>2. Provision of the project offices and facilities necessary for the project implementation</p> <p>3. Others</p> <p>Administrative and operational expenses</p> <p>Running costs for electricity, water, etc.</p>	<p>Pre-condition</p> <p>Understanding and cooperation for preparing the national GHG inventories are obtained among the key ministries and local governments concerned of the Indonesian government.</p>

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ANNEX 1: PDM

	<p>3-3 Conduct key category analysis and identify categories which should be given priority in improving the accuracy and reliability of data.</p> <p>3-4 Identify measures for reducing uncertainties in order to improve accuracy and reliability of emission/removal estimates for prioritized key categories.</p> <p>3-5 Identify emission factors and other relevant parameters that better reflect national or local circumstances in prioritized key categories, specifically for the waste sector.</p> <p>3-6 Organize time-series consistent activity data for each sector based on data provided by line Ministries.</p> <p>3-7 Prepare manuals for developing parameters for the waste sector at the pilot sites to be replicated in other provinces in Indonesia.</p> <p>3-8 Conduct studies at the local level to develop new or improved parameters for the waste sector to be utilized for the national GHG inventory.</p> <p>3-9 Develop a reporting system on parameters for the waste sector from the local to the national level.</p> <p>3-10 Conduct technical workshops/training seminars at the local level to improve the emissions estimation of the waste sector.</p>
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Activity	Responsible Society Functions																	
	2011			2012			2013			2014			2015					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Sub-ACC Meeting (as project management activity)																		
Mid-Term Evaluation																		

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ANNEX 3: Long-term Expert

	Name	Field of expertise	Period
1	Masato KAWANISHI	Chief Adviser/Climate change	July 29, 2010
2	Wataru ONO	Project Coordinator	August, 2011
3	Masami BOLT	Project Coordinator	Oct 26, 2013
4	Takeshi TAKAMA	Vulnerability Assessment	Sep 19, 2010
5	Hiroshi ITO	GHG Inventory	Sep 14, 2011
6	Junko NOGUCHI	Project Coordinator/Climate Change Mainstreaming	Sep 6, 2012
7	Junko MORIZANE	Project Coordinator/Climate Change Mitigation	July 5, 2012
8	Kazuki MATSUJURA	Project Coordinator/Climate Change Policy	August 6, 2014



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ANNEX 4: Short-term Expert

(As of June 2015)

Sub-Project 1

	Field of expertise	Total days	M/M
1	Team Leader	141	4.70
2	Deputy Team Leader	67	2.23
3	Climate Change Policy I NAMA&MRV	66	2.20
4	Climate Change Policy I Adaptation Measures 1	74	2.47
5	Mitigation Measures in Energy Efficiency 1	30	1.00
6	Mitigation Measures in Energy Efficiency 2	38	1.27
7	Mitigation Measures in Waste Management 1	35	1.17
8	Mitigation Measures in Waste Management 2 /Development Planning	214	7.13
9	Adaptation Measures 2	58	1.93
10	Administrator/ Adaptation Measures	270	9.00

Sub-Project 2

	Field of expertise	Total days	M/M
1	Training Follow-up	7	0.23
2	Vulnerability Assessment	64	2.13
3	Climate Change Projection / Downscaling 1	133	4.43
4	Downscaling 2	10	0.33

Sub-Project 3

	Field of expertise	Total days	M/M
1	Leader/national system development	285	9.50
2	Inventory Compilation 1	96	3.20
3	Inventory Compilation 2	53	1.77
4	QA/QC	27	0.90
5	GHG Inventory(Eenergy)	85	2.83
6	GHG Inventory(Industrial process)	84	2.80
7	GHG Inventory (Agriculture)	76	2.53
8	GHG Inventory (LULUCF 1)	102	3.40
9	GHG Inventory (LULUCF 2)	13	0.43
0	GHG Inventory (Waste 1)	414	13.80
11	GHG Inventory (Waste 2)	41	1.37
12	Pilot project (Waste 1)	258	8.60
13	Pilot project (Waste 2)	114	3.80
14	Pilot project (Waste 3)	13	0.43
15	Coordination/capacity building	40	1.33

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ANNEX 5: Provision of Equipment under the Project

Currency: Indonesian Rupiah (IDR)

Date of arrival	Equipment	Specification	Unit	Unit Price	Total Price	Provider	Installation Place	Remark
2011/3/31	ArcGIS Server 10 Workgroup Standard	431876	1	92,711,217	92,711,217.39	Nusantara InfoTech IT Center (NSI)	BMKG (Jakarta)	USD 7,170
2011/3/31	Notebook SONY VAIO	VPC-F217HG/BI	4	36,140,565	144,562,260.87	Nusantara InfoTech IT Center (NSI)	BMKG (Jakarta) and target area for trainings	USD 2,795
2011/3/31	Microsoft Windows Server Standard 2008	P73-04650	1	12,038,235	12,038,234.78	Nusantara InfoTech IT Center (NSI)	BMKG (Jakarta)	USD 931
2011/3/31	Buffalo TeraStation III 2.0TB NAS	TS-X2.0TL/R5	1	13,576,957	13,576,956.52	Nusantara InfoTech IT Center (NSI)	BMKG (Jakarta)	USD 1,050
2014/8/5	Workstation	Fujitsu Celsius W520 CLWD2B81, wide display VL243SSW,	1	112,418,478	112,418,478.26	Fujitsu	BMKG (Jakarta)	JPY 1,034,250
2014/3/19	Server Reiner	SV110C4-33, SATCA35NR ,Intel Xeon E3-1230 Quad , S1200 Server Chipset, 1TB SATA	1	9,065,000	9,065,000.00	Prodigi, Jakarta	Project office	
TOTAL					384,372,147.83			

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ANNEX 6: Project Operational Cost

Currency: Indonesian Rupiah (IDR)

	2010	2011	2012	2013	2014	2015 as of 1st Quarter	Total
Umbrella	538,692,967	1,571,573,348	2,600,772,426	2,652,397,807	2,228,853,407	1,040,900,000	10,633,189,956
Sub-Project 1 Mitigation		477,213,893	3,191,687,060	3,281,794,670	2,189,497,939	141,400,000	9,281,593,562
Sub-Project 1 Adaptation		10,810,000	2,536,174,651	8,286,192,806	2,944,476,375	1,656,430,000	15,434,083,832
Sub-Project 2	276,874,832	616,903,914	480,354,764	2,353,272,857	3,193,575,092	1,111,700,000	8,032,681,460
Sub-Project 3		301,814,532	430,501,327	448,512,654	813,974,476	405,900,000	2,400,702,989
Total	815,567,799	2,978,315,687	9,239,490,228	17,022,170,795	11,370,377,290	4,356,330,000	45,782,251,799

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ANNEX 7: Long term Training in Japan

Name	Ministry	Title/Division	Training Subject	Training Institution/Place	Term
1 Muhammad Addip Novianto	BMKG	Staff / Center for Climate Change and Air Quality of BMKG	Master Course (College of Agriculture)	Ibaragi University	From: April, 2011 To: March, 2013
2 Erik Armandito	BAPPENAS	Development Planner for Directorate of Environmental Affairs	Doctoral Program	Hiroshima University,	From: April, 2012 To: March, 2015
3 Jarot Indarto	BAPPENAS	Planner for Directorate of Food and Agriculture	Doctoral Program	Hiroshima University,	From: April, 2012 To: March, 2015
4 Noor Avianto	BAPPENAS	Planner for Directorate of Food and Agriculture	Master Course	Utsunomiya University,	From: April, 2012 To: March, 2014
5 Puspita Suryaningtyas	BAPPENAS	Planner for Directorate of Food and Agriculture	Master Course (Environmental Management)	Kyoto University,	From: April, 2013 To: March, 2015

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ANNEX 8: Short term Training in Japan

Name	Ministry	Title/Division	Training Subject	Training Institution/Place	Term
1 Ms. Ana			Development of Strategies on Climate Change	JICA Tsukuba International Center	From: January, 2011 To: March, 2011
2 Mr. Eric			Development of Strategies on Climate Change	JICA Tsukuba International Center	From: January, 2011 To: March, 2011
3 Yan Firdaus P, S.Si	BMKG	Staff / Center for Climate Change and Air Quality	Capacity Development for Adaptation to Climate Change - Climate Modeling and Analysis	ICHARM (International Center for Water Hazard and Risk Management) in Tsukuba	From: February 6, 2011 To: March 11, 2011
4 Trinati Wati	BMKG	Staff / Center for Climate Change and Air Quality	Capacity Development for Adaptation to Climate Change - Climate Modeling and Analysis	ICHARM in Tsukuba	From: February 6, 2011 To: March 11, 2011
5 Ms. Tapisari Rumonda Bulan Sirogar, Ss, SE, AK	North Sumatra BAPPEDA	Staff, General and Secretary Division	Development of Strategies on Climate Change	JICA Tsukuba International Center	From : January 9, 2012 To: march 3, 2012
6 Agus Gunawan	KLH	Head/Development of Mitigation Instrument	Mitigation of Climate Change in the Southeast Asia and Oceania Region	JICA Tsukuba International Center	From : August 12, 2012 To : September 15, 2012
7 Arief Yuwono	KLH	Deputy for Environmental Degradaation Control and Climate Change	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
8 Gatot Pujo Nugroho	Government of North Sumatera	Acting Governor	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
9 Sulistyowati	KLH	Assistant Deputy Minister for Mitigation and Atmospheric Function Preservation	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
10 Sudirman	KLH	Assistant Deputy Minister for Waste Management	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
11 Akhmad Naefjib	BLH of South Sumatera	Head	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
12 Hidayati	BLH of North Sumatera	Head	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
13 Endah Ambarwati	KLH	Secretary of Deputy for Environmental Degradaation Control and Climate Change	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012

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ANNEX 8: Short term Training in Japan

14	Dida Miglar Ridha	KLH	Head/ Division of Greenhouse Gas Inventory Unit	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 11, 2012
15	Hadenli Ughlan	BLH of South Sumatera	Deputy Secretary	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 11, 2012
16	Mueh. Andhy	BLH of South Sumatera	Staff	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 11, 2012
17	Siti Bayu Nasution	BLH of North Sumatera	Staff/Environment Monitoring Center	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 11, 2012
18	Fernando Sitanggang	BLH of North Sumatera	Staff	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 11, 2012
19	Mulkan Gani	KLH	Head/Sub-Division of Greenhouse Gas Inventory Unit	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 11, 2012
20	Wukir A. Rukmi	KLH	Head/Sub-Division of Greenhouse Gas Inventory Unit in Energy Sector	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 11, 2012
21	Prasetyadi Utomo	KLH	Staff/Deputy Minister for Mitigation and Atmospheric Function Preservation	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From : September 9, 2012 To : September 29, 2012
22	Issatrianda Evi Doria Hafni ZS.ST	BAPPEDA North Sumatera	Staff/Infrastructure Division	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From : September 9, 2012 To : September 29, 2012
23	Muara Sakti Lubis, ST	BAPPEDA North Sumatera	Staff/Biodiversity and Environmental Sustainability Division	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From : September 9, 2012 To : September 29, 2012

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ANNEX 8: Short term Training in Japan

24	Ms. Sabitiah Irvani	KLH	Staff/Deputy Minister for Mitigation and Atmospheric Function Preservation	Environmental Technology for Low-Carbon Society	JICA Kyushu International Center	From : September 23, 2012 To: October 25, 2012
25	Pudji Setyani, M.Si	BMKG	Staff / Center for Climate Change and Air Quality	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC (Japan Meteorological Business Support Center), JMA (Japan Meteorological Agency), MRI (Meteorological Research Institute), JAMSTEC (Japan Agency for Marine-Earth Science and Technology), Tsukuba university, NIAES (National Institute for Agro-Environmental Sciences), ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
26	Yan Firdaus P, S.Si	BMKG	Staff / Center for Climate Change and Air Quality	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
27	Zumrotul Unsuriyah, M.Si	BMKG	Staff / Center for Climate Change and Air Quality	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
28	Andriyas Aryo P, M.Si	BMKG	Staff / Center for Climate Change and Air Quality	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
29	I Nyoman Wirajaya	BMKG	Director / Center for Climate Data & Information, BMKG Region III Denpasar - Bali	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
30	Rahmat Praselia	BMKG	Staff / Climatology Station in Negara - Bali	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
31	Yuni Yulianti, S.Si	BMKG	Staff / Center for Climate, Agroclimatic, and Maritime Climate	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
32	Radyan Putra Pradana, SP	BMKG	Staff / Center for Research and Development	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
33	Dedi Harijan, ST	BAPPEDA North Sumatra	Staff Biodiversity and Environmental Sustainability Division	Development of Strategies on Climate Change	JICA Tsukuba International Center	From: January 27, 2013 To: March 2, 2013
34	Dr. Endah Murniningtyas	BAPPENAS	Deputy Minister for Natural Resources and Environment	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013 To: May 26, 2013
35	Ms. Wahyuningsih Darajati,	BAPPENAS	Director for Environmental Affairs	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013 To: May 26, 2013
36	Ms. Tri Dewi Virgianti	BAPPENAS	Deputy Director for Environmental	High-level Training for	Relevant Ministries and Institutions in Tokyo,	From: May 19, 2013

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ANNEX 8: Short term Training in Japan

51	Ms. Emmy Suryandari	KEMENPERIN	Head/Sub-Division of Global Environment	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
52	Mr. Sandhi Eko Braumono	PU (Ministry of public works)	Sub-division of Waste	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
53	Mr. Gatot Setiawan	KLH	Staff/Inventory Unit	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
54	Mr. Prasetyadi Utomo	KLH	Staff/Inventory Unit	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
55	Rezawahya	BLH of South Sumatera	Staff/Subdivision Program and Accounting	Environmental Technology for Low Carbon Society	JICA Kyushu International Center	From : August 28, 2013 To : October 4, 2013
56	Indra Bangsawan Harahap	BLH of North Sumatera	Head of Sub Program	Environmental Technology for Low Carbon Society	JICA Kyushu International Center	From : August 28, 2013 To : October 4, 2013
57	Mr. Siburian Ivan Mangaratua	MOA	Climate Analyst, Directorate of Irrigation Water Management, DG of Agriculture Infrastructure & Facilities	Adaptation to Climate Change	JICA Tsukuba International Center	From: September 29, 2013 To: October 29, 2013
58	Ms. Fatmihya	BMKG	Staff of center for Climate, Agroclimate and Marine	Seasonal Weather Forecasting particularly in the Area of Agriculture in Japan	Japan Metrological Agency , Tokyo Climate Center	From: November 10, 2013 To: November 30, 2013
59	Ms. Ridwan Nur Prasetyo, S.Kom	BMKG	Staff of Climate Early Warning Sub Division	Seasonal Weather Forecasting particularly in the Area of Agriculture in Japan	Japan Metrological Agency , Tokyo Climate Center	From: November 10, 2013 To: November 30, 2013
60	Ms. Tri Nurmayati, S	BMKG	Staff of Data Base Sub Division	Seasonal Weather Forecasting particularly in the Area of Agriculture in Japan	Japan Metrological Agency , Tokyo Climate Center	From: November 10, 2013 To: November 30, 2013
61	Mr. Herdian Deli	KLH	Technical Staff, Deputy Minister for Mitigation & Atmospheric Function	Development of Strategies on Climate Change	JICA Tsukuba International Center	From: Jan 19, 2014 To: Feb 22, 2014
62	Mr. Andriyas Aryo	BMKG	Staff of Center for Climate Change and Air Quality	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase I)	Tsukuba University	From: April 1, 2014 To: June 27, 2014
63	Mr. Ganesha Tri C	BMKG	Staff of Center for Climate Change and Air Quality	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase I)	Tsukuba University	From: April 1, 2014 To: June 27, 2014

2014, 2014

ANNEX 8: Short term Training in Japan

64	Mr. Robi Muhasyah	BMKG	Staff of Center for Climate Agroclimate and Maritime Climate	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase I)	Tsukuba University	From: April 1, 2014 To: June 27, 2014
65	Mr. Mulyadi Hendiawan	MOA	Director of Agriculture Financing	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1, 2014 To June 7, 2014
66	Mr. Siswoyo	MOA	Directorate general of Agricultural Infrastructure and Facilities Head of Sub Directorate of Syariah Financing and Cooperation, Directorate of Agriculture Financing	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1, 2014 To June 7, 2014
67	Mr. Rahmanto	MOA	Section Head of Cooperation, Directorate of Agriculture Financing	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1, 2014 To June 7, 2014
68	Mr. Achmad Sabar Nataprawira	MOA	Section Head of Water Conservation and Environment, Directorate of Irrigation Water Management	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1, 2014 To June 7, 2014
69	Ms. Widyastuti Djumakking	MOA	Staff of Climate, Water Conservation and Environment, Directorate of Irrigation Water Management	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1, 2014 To June 7, 2014
70	Mr. Edy Purnawan	MOA	Head of Planning Division, Secretariate of DG of Agriculture Infrastructure	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1, 2014 To June 7, 2014
71	Mr. Nono Rusono	BAPPENAS	Director, Directorate of Food and Agriculture	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1, 2014 To June 7, 2014
72	Mr. Ali Muhamam	BAPPENAS	Planning Staff, Directorate of Food and Agriculture	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1, 2014
73	Mr. Pungky Sumadi	BAPPENAS	Director, Directorate of Financial Service	Agricultural Insurance and	Relevant Ministries, Institutions and Companies	From June 1, 2014 To June 7, 2014

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ANNEX 8: Short term Training in Japan

74	Mr. Mohammad Mustajab	BAPPENAS	Head of Sub Directorate of Financial Services Non-Bank, Directorate of Financial Service and State Owned	Broader Risk Management	(MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	To June 7,2014
75	Mr. S Haryo Suwakhyo	MOF	Head of Division for Climate Finance I, Center for Climate Change Financing and Multilateral Policy	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
76	Ms. Dwi Utari	MOF	Head of Sub Division for Agriculture Sector, Division for Climate Change I, Center for Climate Change Financing and Multilateral Policy	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
77	Mr. Joko Haryanto	MOF	Head of Section for Industry, Center for Climate Change Financing and Multilateral Policy	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
78	Ms. Yani Farida Aryani	MOF	Head of Sub Division for Food and Other Subsidy, Center for State Budget Policy	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
79	Mr. Sahata L. Tobing	PT Asuransi Jasa Indonesia (JASINDO)	Director, Retail Operation	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
80	Mr. Devy Angga Mulia	PT Asuransi Jasa Indonesia (JASINDO)	General Manager of Retail Technical, Retail Operation	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompoo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
81	Evan Oktavianus	MOF	Policy Analyst Climate change Division	Development of Strategies on Climate Change	JICA Tsukuba International Center	From: July27,2014 To: Sep6, 2014
82	Mr. Ali Muliam	BAPPENAS	Planning Staff, Directorate of Food and Agriculture	Capacity Development for NMA/MRV	JICA Kyushu International Center	From September 7,2014 To October 1,2014
83	Mr. William Pandapotan Simanora	BAPPENAS	Functional Staff, Directorate of Energy, Mineral and Mining	Capacity Development for NMA/MRV	JICA Kyushu International Center	From September 7,2014 To October 1,2014
84	Mr. Junner Sihalo	East Java Provincial Government	Staff of Energy and Mineral Resources and the Environment, Natural Resources Administration Bureau	Capacity Development for NMA/MRV	JICA Kyushu International Center	From September 7,2014 To October 1,2014

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ANNEX 8: Short term Training in Japan

85	Mr. Doni Jananto Widiantono	PU (Ministry of public works)	Deputy director of general planning	Adaptation to Climate Change	JICA Tsukuba International Center	From September 28, 2014 To October 25, 2014
86	Ms. Nuki Harmiati	PU (Ministry of public works)	Head of section of monitoring and evaluation of national development planning	Adaptation to Climate Change	JICA Tsukuba International Center	From September 28, 2014 To October 25, 2014
87	Asri Susilawati	BMKG	Meteorologist, Remote Sensing Division	Reinforcement of Meteorological Services	JICA Tokyo International Center	From: Sep 15, 2014 To: Dec 13, 2014
88	Mr. Ganesha Tri Chandrasa	BMKG	Staff of Center for Climate Change and Air Quality	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase II)	Tsukuba University	From September 29, 2014 To December 6, 2014
89	Mr. Andriyas Aryo Prabowo	BMKG	Staff of Center for Climate Change and Air Quality	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase II)	Tsukuba University	From September 29, 2014 To December 6, 2014
90	Mr. Robi Muhiaryah	BMKG	Staff of Center for Climate Agroclimate and Maritime Climate	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase II)	Tsukuba University	From September 29, 2014 To December 6, 2014
91	Mr. Radyan Putra	BMKG	Staff of Climate and Air Quality, research and development center	Vulnerability Assessment in Agriculture Sector	National Institute for Agro-Environmental Science	From September 29, 2014 To December 20, 2014
92	Mr. Dedy Swandry	BMKG	Staff of Center for Agro Climate and Marine Climate	Vulnerability Assessment in Agriculture Sector	National Institute for Agro-Environmental Science	From September 29, 2014 To December 20, 2014
93	Mr. Widada Sulistyia	BMKG	Deputy Director General for Climatology	Practices in Vulnerability Assessment	Japan Metrological Agency, Tokio Marine, Sompoo Japan, Tsukuba University, Kyoto University	From October 12, 2014 To October 18, 2014
94	Mr. Dodo Gunawan	BMKG	Director, Center for Climate Change & Air Quality	Practices in Vulnerability Assessment	Japan Metrological Agency, Tokio Marine, Sompoo Japan, Tsukuba University, Kyoto University	From October 12, 2014 To October 18, 2014
95	Mr. Ardhasona Sopaheluwakan	BMKG	Head of Climate Analysis and Information sub-division, Center for Climate Agro and Marine Climate	Practices in Vulnerability Assessment	Japan Metrological Agency, Tokio Marine, Sompoo Japan, Tsukuba University, Kyoto University	From October 12, 2014 To October 18, 2014
96	Mr. Kristanto Hadi, S.Si	PU	Staff of Directorate of National Planning and Development, Directorate General of Spatial Planning and Development (DGSP)	Vulnerability Assessment and Land Use Planning	Tsukuba University	From November 24, 2014 To December 20, 2014
97	Ms. Ratu vely Renita	PU	Professional Staff/Officer at Directorate of Urban Development, DGSP	Vulnerability Assessment and Land Use Planning	Tsukuba University	From November 24, 2014 To December 20, 2014

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ANNEX 8: Short term Training in Japan

98	Mr.IDG Jummaedhi	ITB	Lecturer in Meteorology Program	Vulnerability Assessment and Land Use Planning	Tsukuba University	From November 8,2014 To December 20,2014
99	Ir. H. Duddy Imron Cholid, M.S.	Ministry of Agrarian and Spatial Planning	Deputy of Land Regulation and Land Control, Ministry of Agrarian and Spatial Planning/National Land Agency	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
100	DR.Ir. Budi Situmorang, MURP	Ministry of Agrarian and Spatial Planning	Director of National Spatial Plan, Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
101	DR.Dra. Lina Marlita, CES	Ministry of Agrarian and Spatial Planning	Secretary of Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
102	Reny Windyawati, ST, MSc.	Ministry of Agrarian and Spatial Planning	Deputy Director of National Spatial Plan for Western Indonesia (Region I), Directorate of National Spatial Plan, Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
103	Ir. Sita Indrayani	Ministry of Agrarian and Spatial Planning	Deputy Director of Inter-Sectoral Coordination, Directorate of National Spatial Plan, Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
104	Dra. Desfitriza, MT	Ministry of Agrarian and Spatial Planning	Deputy Director of Regional Spatial Planning Policies for Eastern Indonesia (Region II), Directorate of Regional Spatial Plan for Eastern Indonesia (Region II), Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
105	Klaudia Oktarini Sembiring, ST, MT, MSc.	Ministry of Agrarian and Spatial Planning	Head of Section of National Spatial Planning for Java Island (Region I-B), Directorate of National Spatial Plan, Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
106	Endang Sihetyaningrum, ST, ME	Ministry of Agrarian and Spatial Planning	Head of Section of Program and Technical Regulation, Directorate of Regional Spatial Plan for Eastern Indonesia (Region I), Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
107	Gumelar Wahyu Gumilang, SE, MT.	Ministry of Agrarian and Spatial Planning	Professional Staff on Section of Foreign Affair, Directorate of Programming and Partnership, Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015

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ANNEX 9: Local cost by Indonesian Side

Currency: Indonesian Rupiah (IDR)

	2010	2011	2012	2013	2014	Total
BAPPENAS	492,795,000	600,000,000	438,340,000	450,000,000	500,000,000	2,481,135,000
PU					600,000,000	600,000,000
BMKG		410,324,600	610,000,000	735,550,000	1,079,773,000	2,835,647,600
MOA (Irrigation)				No budget allocation	429,422,850	429,422,850
MOA (Insurance)				No budget allocation	75,000,000	75,000,000
KLHK		2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	8,000,000,000
					Total	14,421,205,450

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ANNEX 10: Counterpart List

Umbrella

No	Name	Title	Organization	Current C/P
1	Dr. Endah Murniningtyas	Deputy of Natural Resource and Environment	BAPPENAS	V

Sub-Project 1

No	Name	Title	Organization	Current C/P
1	Ms. Wahyuningsih Darajati	Director for Environmental Affairs	BAPPENAS	V
2	Mr. Nono Rusono, PG.DIP. Agr.Sc., M.Si.	Director for Food and Agriculture, DFG	BAPPENAS	V
3	Dr. Ms. Sri Yanti JS, MPM	Director for Marine and Fishery Affairs of, DMFA	BAPPENAS	V
4	Mr. Basah Hernowo, MA.	Director for Forestry and Water Resources Conservation, DFWRC	BAPPENAS	V
5	Dr. Monty Giriana, M.Sc., MCP, Ph.D	Director for Energy, Minerals and Mining Affairs, DEMMA	BAPPENAS	V
6	Ms. Syamsidar Thamrin	Deputy Director for Climate and Weather, Directorate for Environmental Affairs	BAPPENAS	V
7	Mr. Pungky Sumadi	Director for Financial Service and State Owned Enterprise	BAPPENAS	V
8	Ms. Tri Dewi Virgiyanti	Deputy Director for Environmental Pollution and Degradation Control Division, DEA	BAPPENAS	V
9	Mr. Mohammad Mustajab	Head of Sub Directorate of Financial Services Non- Bank	BAPPENAS	V
10	Ms. Anna Amalia	Planner, DEA	BAPPENAS	V
11	Mr. Erik Armundito	Planner, DEA	BAPPENAS	V
12	Mr. Fachrizal Alief	Supporting staff, DEA	BAPPENAS	
13	Mr. Eko Wibisono	Supporting staff, DEA	BAPPENAS	
14	Mr. Irfan Darliazi	Supporting staff, DEA	BAPPENAS	V
15	Mr. Ali Muharam	Supporting staff, DFG	BAPPENAS	V
16	Mr. Rahmat Mulianda	Supporting staff, DMFA	BAPPENAS	V
17	Ms. Setyawati	Supporting staff, DMFA	BAPPENAS	V
18	Ms. Nur Hygiawati Rahayu	Supporting staff, DFWRC	BAPPENAS	V
19	Mr. Izi Marizi	Supporting staff, DEMM	BAPPENAS	V

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ANNEX 10: Counterpart List

20	Dr. Ir. M. Basuki Hadimuljono, M.Sc. (Currently become minister of Ministry Publi Works)	Director General of DGSP	MPW	
21	Dra. Lina Marlina, CES	Secretary of DGSP	MPW	
22	Dr. Ir. Budi Situmorang, MURP	Director of National Spatial Planning and Development, DGSP	MPW (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
23	Dr. Ir. Dodo Gunawan, DEW	Head of Center Climate Change and Air Quality Center	BMKG	V
24	Reny Windyawati, ST., M.Sc.	Directorate of National Spatial Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
25	Dr. Ir. Doni J.W., M.Eng.Sc.	Directorate of Programming and Partnership, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
26	Klaudia Oktariani S, ST, MT, M.Sc.	Directorate of National Spatial Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
27	Aria Indra Purnama, ST, MUM	Directorate of National Spatial Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
28	Endra Saleh Atmawidjaja, ST, M.Sc.	Directorate of Urban Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	
29	Ir. Sufriyadi, MA.	Directorate of Regional Planning and Development for Western Java.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
30	Dra. Dosfitriza, MT.	Directorate of Regional Planning and Development for Eastern Java.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
31	Drs. Budi Suhardi, DEA	Head of Operations Development and Climate Change and Air Quality.	BMKG	V
32	Drs. Nasrullah	Head of Climate Change Information	BMKG	V

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ANNEX 10: Counterpart List

33	Stephanus Raden Kristanto, ST.,M.Eng.	Directorate of Programming and Partnership, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
34	Kristanto Hadi, S.Si.	Directorate of National Spatial Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
35	Gumelar Wahyu G, SE.,MT.	Directorate of Programming and Partnership, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
35	Abdul Mutholib, ST.,MT.	Directorate of Regional Planning and Development for Western Indonesia.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
36	Muhammad Amin Cakrawijaya, ST.,MT.	Directorate of Regional Planning and Development for Eastern Indonesia.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
37	Dede Tarmana, M.Si.	Staff of Center for Climate Change and Air Quality.	BMKG	V
38	Andriyas Aryo Prabowo, M.Si.	Staff of Center for Climate Change and Air Quality.	BMKG	V
39	Ganesha Tri Chandrasa, S.Si.	Staff of Center for Climate Change and Air Quality.	BMKG	V

Sub-Project 2

No.	Name	Title	Organization	Current C/P
1	Mr. Nono Rusono	Director of Food and Agriculture (Sub-Project Director)	BAPPENAS	V
2	Mr. Anwar Sunari	Head of Sub-directorate of livestock and <i>ad-interim</i> Head of Sub-directorate of food	BAPPENAS	V
3	Mr. Ali Muharam	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V
4	Mr. Noor Avianto	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V
5	Mr. Jarot Indarto	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V
6	Ms. Dini Maghfirra	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V
7	Ms. Puspita Suryaningtyas	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V

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ANNEX 10: Counterpart List

8	Dr. Widada Sulistyia, DEA	Deputy Director General for Climatology	BMKG	V
9	Dr. Edvin Aldrian	Director of Center for Climate Change and Air Quality.	BMKG	
10	Dr.Dodo Gunawan	Director of Center for Climate change and Air Quality	BMKG	V
11	Pudji Setyani, M.Si.	Staff of Center for Climate Change and Air Quality.	BMKG	V
12	Zumrotul Unsuriyah, S.Si., M.Si.	Staff of Climate Change Analysis and Information Sub Division.	BMKG	V
13	Erwin Ekasyahputera, M.Si.	Head of Sub Division for Early Warning.	BMKG	
14	Dedi Sucahyono, M.Si.	Head of Sub Division for Analysis and Information Climate Change.	BMKG	
15	Drs. Budi Suhardi, DEA	Head of Division for Operational Management Climate Change and Air Quality.	BMKG	V
16	Drs. I Wayan Suardana, MM.	Head of Bali Regional Office.	BMKG	
17	Mr.Ardhasena Sopaheluwakan	Head of Climate Analysis and Information sub division, Center for Climate Agro and Marine Climate	BMKG	V
18	Mr. Ganesha Tri Chandrasa	Staff of Center for Climate Change and Air Quality.	BMKG	V
19	Mr. Andriyas Aryo Prabowo	Staff of Center for Climate Change and Air Quality.	BMKG	V
20	Mr. Robi Muharsyah	Staff of Center for Climate Agroclimate and Maritime Climate	BMKG	V
21	Mr. Radyan Putra	Staff of Climate and Air Quality , Reserch and Development center	BMKG	V
22	Dr. Sumarjo Gatot Irianto	Director General of Agricultural Infrastructure and Facility	Ministry of Agriculture	V
23	Mr. Prasetyo Nuchsin	Director of Irrigation Water Management. Directorate of Irrigation Water Management.	Ministry of Agriculture	
24	Mr. Tunggul Iman Panudju	Director of Irrigation Water Management. Directorate of Irrigation Water Management.	Ministry of Agriculture	V
25	Mr. Yandri Ali	Head of Sub Directorate of Climate, Water Conservation, and Environment. Directorate of Irrigation Water Management	Ministry of Agriculture	
26	Ir. Rahmanto, M.Sc.	Head of Sub Directorate of Climate, Water Conservation, and Environment. Directorate of Irrigation Water Management	Ministry of Agriculture	V
27	Mr. Foyya Aquinos	Section Head of Climate; Sub Directorate of Climate; Water Conservation, and Environment; Directorate of Irrigation Water Management.	Ministry of Agriculture	

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ANNEX 10: Counterpart List

26	Ir. Lilik Winarti, M.Sc.	Section Head of Climate; Sub Directorate of Climate; Water Conservation, and Environment; Directorate of Irrigation Water Management.	Ministry of Agriculture	V
28	Mrs. Widyastuti	Staff of Climate Section; Sub Directorate of Climate, Water Conservation, and Environment, Directorate of Irrigation Water Management	Ministry of Agriculture	V
29	Mr. Mulyadi Hendiawan	Director of Agricultural Finance	Ministry of Agriculture	V
30	Mr. Muhammad Husni	Head of Sub Directorate of Syariah Financing and Cooperation	Ministry of Agriculture	V
31	Mr. Siswoyo	Section Head of Cooperation, Directorate of Agricultural Finance	Ministry of Agriculture	V

Sub-Project 3

No	Name	Title	Organization	Current C/P
1	Ms. Emma Rachmawati	Assistant Deputy for Mitigation and Atmospheric Function Preservation	Ministry of Environment and Forestry	V
2	Mr. Dida Migfar Ridha	Division Head of National Greenhouse Gas Inventory	Ministry of Environment and Forestry	V
3	Mr. Mulkan Gani	GHG Inventory for Energy Sector	Ministry of Environment and Forestry	V
4	Ms. Wukir A. Rukmi	GHG Inventory for Waste Sector	Ministry of Environment and Forestry	V
5	Mr. Gatot Setiawan	Staff of GHG Inventory for Forestry Sector	Ministry of Environment and Forestry	V
6	Mr. Prasetyadi Utomo	Staff of GHG Inventory for Agriculture Sector	Ministry of Environment and Forestry	V
7	Dr. Ir. Ego Syahrial, M.Sc.	Head of data information	Ministry of Energy	
8	Mr. Agung Wahyu Kencono	Head of data information	Ministry of Energy	V
9	Mrs. Ir. Tri Reni Budiarti	Head of the Center for Green Industry and the Environment	Ministry of Industry	
10	Dr. Ir. Ngakan Timur Antara	Head of the Center for Green Industry and the Environment	Ministry of Industry	V
11	Hr. Harry Boediorso S.	Head of Center for Partnership Studies and Transportation Services	Ministry of Transportation	
12	Dr. Muhrizal Sarwani	Head of Research and Development of Agricultural Land Resources	Ministry of Agriculture	
13	Dr. Ir. Dedi Nursyamsi, M. Agr	Head of Research and Development of Agricultural Land Resources	Ministry of Agriculture	V
14	Dr. Ir. Winny Dian Wibawa, M. Sc.	Head of Bureau Planning	Ministry of Agriculture	

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ANNEX 10: Counterpart List

15	Dr. Ir. Kasdi Subagyo, M.Sc	Head of Bureau Planning	Ministry of Agriculture	V
16	Dr. Yuyu Rahayu	Director of Inventory and Monitoring of Forest Resources	Ministry of Forestry	
17	Dr. Ruandha Agung Sugadirman	Director of Inventory and Monitoring of Forest Resources	Ministry of Forestry	V
18	Ms. Keti Anggriani	Director of Settlement Sanitation Development	Ministry of Public Works	
19	Mr. Ano Herwana, SE	Head of Sub Directorate of Environment Statistics	Statistic Bureau	
20	Mr. Farhan Helmy	Secretary of Mitigation Working Group	National Council of Climate Change/DNPI	
21	Dr. Ir. Prihasto Setyanto, M.Agr.	Head of Indonesia Agricultural Environment Research Institute	Ministry of Agriculture	V
22	Ir. Lilih Handyaningrum, MM	Head of Environmental Assessment Division	Ministry of Industry	V
23	Emmy Suryandari, ST., MTM.	Head of Global Environment Sub-Division	Ministry of Industry	V

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ANNEX 11: Deliverables List

Sub- Project 1

Output Code	Release	Title		Availability	
		Bahasa	English	Hard	Soft
1	RPJMN 2015 – 2019		RPJMN 2015 – 2019		V (EN)
2-1	RPJMD of North Sumatra & South Sumatra 2014	Peraturan Daerah Provinsi Sumatera Utara Nomor 5 Tahun 2014 Tentang Rencana Pembangunan Jangka Menengah Daerah (RPJMD) Provinsi Sumatera Utara Tahun 2013-2018		V (ID)	
2-2		RPJMD South Sumatra			V (ID)
		Evaluation on the above RPJMN and RPJMD			V (JP)
3		(3-1) Result of the Project mid-term review ; (3-2) Monthly & annual Project reports		V (EN)	V (EN)
4		Report by SPI Japanese expert team			
	2011		Inception Report SPI		V (EN)
	2011		Progress Report SPI		V (EN)
5		Guideline for the development of RAD-GRK		V (ID)	V (EN)
	2011	Pedman penyusunan rencana aksi daerah penurunan emisi gas rumah kaca			
6		RAD-GRK of North Sumatra & South Sumatra		V (ID EN)	V (EN)
	2012	Rencana Aksi Daerah Penurunan Emisi Gas Rumah Kaca Provinsi Sumatera Utara Tahun 2010-2020	Local Action Plan for Greenhouse Gas Emissions Reduction of North Sumatera PProvince 2010-2020		
	2012	Rencana Aksi Daerah Penurunan Emisi Gas Rumah Kaca Provinsi Sumatera Selatan Tahun 2010-2020		V (ID)	V (ID)
7		Guideline for MER of the implementation of RAD-GRK (on-line)			V (ID)
	2015		Draft Guideline for MER of the implementation of RAD-GRK (on-line)		
8		MER reports of North Sumatra & South Sumatra		V (ID)	
	2014	PEP RAD-GRK Provinsi Sumatera Selatan Sektor Pengelolaan Limbah (Domestik)			
9		Guideline for MER of the implementation of RAD-GRK at kabupaten/kota level (off-line)			
			Under development		
10		Local RAD-GRK of South Sumatra			
	2015	Penguatan Kapasitas SDM Terkait Mitigasi Perubahan Iklim di Kota Pagarlamm		V (ID)	
		South Sumatra RAD-GRK		V (ID EN)	
11		MER report of Pagarlamm			
	2015	Penguatan Kapasitas SDM Terkait Mitigasi Perubahan Iklim di Kota Pagarlamm		V (ID)	
12		Report on MER for RAN-GRK and RAD-GRK by RAN-GRK secretary			V (ID)
13,14		(13) North Sumatra Governor Decree on securing rice production against climate extremes. (14) M&E Plan for the implementation of the above decree			

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ANNEX 11: Deliverables List

2014	Implementasi Adaptasi Iklim Ekstrem Sebagai Upaya Penganaman Produksi Beras di Sumatera Utara Tahun 2012-2020	-	V (ID)	V (ID)
2012	Adaptasi Iklim Ekstrem Sebagai Upaya Penganaman Produksi Beras di Sumatera Utara Tahun 2012-2020	Adaptation to Extreme CLimate Condition As An Effort to Secure Rice Production in North Sumatera Year 2012-2020	V (ID EN))	V (EN)
15	Strategy for Mainstreaming Adaptation into Development Planning			
2012		Book 1: The Strategy for Mainstreaming Adaptation into National Development Planning per Sector - Integration Framework	V (EN)	
2012		Book 2: The Strategy for Mainstreaming Adaptation into National Development Planning per Sector	V (EN)	
16	RAN-API			
2014	Rencana Aksi Nasional Adaptasi Perubahan Iklim (RAN-API)	National Action Plan for Climate Change Adaptation (RAN-API)	V (EN)	V (EN)
17	Draft Recommendation on the Establishment of A Secretariat for Climate Change			
2014		Organization assessment and development stud of the Secretariat RAN-GRK	V (EN)	V (EN)
18	Report on M&E by RAN-API Secretariat Office			
2014	Draft Annual Report of RAN-API Secretariat		V (ID)	
19	Assessment Report of Climate Risk from Spatial Planning Perspective in Study Site			
20	Policy Recommendation for the Integration of Climate Change Adaptation of Climate Change	Under development		
		Under development		
21	Draft Technical Guidance for the Integration of Climate Change Adaptation into National Development Planning	Under development		
		Under development		
22	Reports of background study			
2014	-	Final Report: Background Study Forestry RPJMN 2015 - 2019	V (EN)	V (EN)
2013	-	Background Study of RPJMN 2015 – 2019, Agriculture and Food Sector	V (EN)	V (EN)
2013	-	Final Report: Fisherman Terms of Trade Achievement Background Study Marine and Fisheries RPJMN 2015 - 2019	V (EN)	V (EN)
2013	-	Executive Summary: Fisherman Terms of Trade Achievement Background Study Marine and Fisheries RPJMN 2015 - 2019	V (EN)	V (EN)
2014	-	Background Study Marine and Fisheries RPJMN 2015 - 2019	V (EN)	V (EN)
2013	-	Final Report: Background Study RPJMN 2015-2019 Environmental Development Index	V (EN)	V (EN)
		Indonesia Integrated Energy, Economic and Environmental Modeling (I2E3M) Background Study RPJMN 2015-2019	V (EN)	
2014		Energy and Mining Sector Contribution Projection Model Development: Econometric Input-Output Model	V (EN)	V (EN)
2014		Executive Summary: Energy and Mining Sector Contribution Projection Model Development: Econometric Input-Output Model	V (EN)	V (EN)
2014		Energy Supply and Demand Projection Model Development and Indicators of Energy Resilience and Clean Energy – Background Study of RPJMN 2015-2019	V (EN)	V (EN)

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ANNEX II: Deliverables List

2014	Identification Study of Food Security and Consumer Preference on Staple Food Consumption: Rice (Paddy), Soybean, Cooking Oil (Palm), and Red Onion	V (EN)	V (EN)
2014	Identification Study of Food Security and Consumer Preference on Staple Food Consumption: Corn, Meat, Sugar, and Chili	V (EN)	V (EN)
2013	Farmers Terms of Trade Analysis as a Preparation of national Midterm Development Planning 2015-2019	V (EN)	V (EN)
2014	Work Report of Modeling Software Development: Integrated Energy Security And Clean Energy Model (IESCEM)	V (EN)	V (EN)
23-1 (same as no.1)	RPJMN 2015 – 2019		V (EN)
23-2	Evaluation Based on RPJMN		V (JP)

*Last Update June 1, 2015

Sub- Project 2

Output Code	Reference	Bahan		Bibli		Availability	
		Bahasa	English	Hard	Soft	Hard	Soft
24	Monthly and Annual Report					v(JP)	v(JP)
25	Government Document						
26-1	Panduan dan Petunjuk Teknis Asuransi Usaha Tani Padi (AUTP)					v(ID)	v(EN)
26-2	RPJMN 2015-2019						v(EN)
27	Evaluation based on RPJMN						V(JP)
28	Lessons learnt report compiled by Takama San						V(EN)
28	Maps and Reports on vulnerability assessment						
2013	Peta Kerentanan Perubahan Iklim Terhadap Sektor Pertanian di Provinsi Bali					V(ID)	V(ID)
2013	Guideline Pembuatan Peta Perubahan Iklim Terhadap Sektor Pertanian di Bali Tahun 2013.					V(ID)	V(ID)
2014	Japanese Technical Cooperation for Capacity Development for Vulnerability Assessment (Sub-Project 2)					V(EN)(JP)	
29	A model package of training on climate change adaptation at farm level, consisting (1) documentation of the way of conducting training, with curriculum, modules, texts and materials, and (2) monitoring and evaluation plan, with tests and questionnaires						
2014	Modul Informasi Cuaca dan Iklim untuk Pertanian (Modul 1)					V(ID)(EN)	V (EN)

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ANNEX II: Deliverables List

				V(ID)(EN)	V(EN)(ID)
	<p>Modul Mitigasi, Adaptasi dan Antisipasi Perubahan Iklim (Modul 2)</p> <p>Modul Pengelolaan Lahan dan Air (Modul 3)</p> <p>Modul Konservasi Sumber Daya Air (Modul 4)</p> <p>Modul Pengantar Kalender Tanam (Modul 5)</p> <p>Modul Penguatan Kelembagaan Petani (Modul 6)</p> <p>Modul Pengelolaan Sistem Jaringan Irigasi Permukaan dan Air Tanah (Modul 7)</p> <p>Modul Sistem Intensifikasi Padi (SRI) (Modul 8)</p> <p>Modul Pengembangan Agribisnis Terpadu Melalui Pengolahan Limbah Pertanian (Modul 9)</p>	<p>Module on Mitigation, Adaptation, and Anticipation of Climate Change (Module 2)</p> <p>Module on Land and Water Management (Module 3)</p> <p>Module on Water Resources Conservation (Module 4)</p> <p>Module on Introduction to Cropping Calendar (Module 5)</p> <p>Module on Strengthening Farmer's Institution (Module 6)</p> <p>Module on Management of Surface and Ground Water Irrigation Network System (Module 7)</p> <p>Module on System of Rice Intensification (Module 8)</p> <p>Module on Development of Integrated Agribusiness through Agricultural Waste Processing (Module 9)</p> <p>Documentation of the way of conducting training, with curriculum, modules, texts and materials - Ongoing</p>			
30	<p>Reports by local expert team, including proposals for adaptation actions</p>		Laporan identifikasi dan proposal persiapan		
32	<p>Identification and preparation proposal reports</p>				
	<p>Recommendation on the way-forward</p>		Under development		
33	<p>Additional Survey to be conducted</p>		On going		
34	<p>Report of pilot activities</p>				
	<p>2013-2014</p> <p>Draft Laporan Akhir: Desain Detail Kegiatan Percontohan Asuransi Pertanian di Provinsi Jawa Timur</p> <p>Laporan 1: Kriteria calon lokasi percontohan dan calon petani/keompok tani tertanggung</p> <p>Laporan 2: Tinjauan terhadap Asuransi Usaha Tani Padi Berbasis Ganti Rugi (Indemnit) yang Saat ini Diadopsi, Dibandingkan dengan Model-Model Skema Asuransi Usaha Tani Padi Lainnya</p> <p>Laporan 3: Desain Detail Pelaksanaan Asuransi Tanaman Padi</p> <p>Laporan 4: Pelaksanaan Persiapan Kegiatan Percontohan</p>	<p>Final Report : Detailed Design of Pilot Activity on Crop Insurance in East Java Province</p> <p>Report 1: Criteria of Prospective Pilot Sites and Insured Farmers/Farmer's Group</p> <p>Report 2: Review on Indemnity-based Rice Crop Insurance Currently Adopted as Compared to Other Models of Rice Crop Insurance Scheme</p> <p>Report 3: Detailed Design of Rice Crop Insurance Implementation</p> <p>Report 4: Implementation of Preparation of the Pilot Project</p>		V(ID)(EN)	V(EN)
	<p>2014</p> <p>Laporan aktivitas uji coba</p> <ul style="list-style-type: none"> - ToR sosialisasi - Sosialisasi - Implementasi - Monitoring dan evaluasi 	<p>Pilot activity reports</p> <ul style="list-style-type: none"> - Socialization ToR - Socialization - Implementation - Monitoring and evaluation 		V	V
35	<p>Report on relevant issues submitted by local resource persons, including on the report on a range of agricultural risk mitigation instruments</p>				
	<p>2014</p>		Desk-Top Analysis on Indemnity-Based Rice Crop Insurance	V(EN)	V(EN)
	<p>2014</p>		Desk-Top Analysis on Weather/Climate Index-Based Insurance	V(EN)	V(EN)
	<p>2014</p>		Factors Affecting Rice Crop Insurance Application	V(EN)	V(EN)

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ANNEX 11: Deliverables List

36	Compilation of presentations by Japanese short-term expert and other relevant material		V(EN)	V(EN)
	2014	Presentasi dan laporan kunjungan ke Jepang 1-7 Juni 2014 Presentation material by MR. Morisitha and Mr. Yasuda	V(EN)	V(EN)
37	General guideline and technical guidebook on agricultural insurance			
	2012	Panduan dan Petunjuk Teknis Asuransi Usaha Tani Padi (AUTP)	V(ID)	V(EN)
	2014	Panduan pelaksanaan uji coba asuransi pertanian Roadmap on the introduction of agricultural insurance	V(ID)	V(EN)
38	Under Development			

Sub- Project 3

Output Code	Release	Title		Availability	
		Bahasa	English	Hard	Soft
39	Report by Japanese expert team (Annual Progress Report on National GHG Inventory Development)		English	V(EN)	V(EN)
40-1	Chapters 1 to 6 of the draft National GHG inventory report 2008			V(EN)	V(EN)
40-2	Preliminary review of the 2014 GHG inventory			V(EN)	V(EN)
40-3	Step by step manual for preparing GHG inventories			V(ID)(EN)	V(EN)
	2013	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume III Agriculture Sector		V(ID)(EN)	V(EN)
	2013	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories : Volume II Industrial Processes and Product Use (IPPU) Sector	Annex I Draft National GHG Inventory Report: year 2008, Greenhouse Gas Inventory of Indonesia year 2008 [DRAFT REPORT do not quote] Volume IV Penggunaan Lahan, Perubahan Penggunaan Lahan dan Kehutanan (LULUCF) Sektor	V(ID)(EN)	V(EN)
	2013	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume I Energy Sector	Preliminary Review of the GHG inventory prepared in 2014 Volume IV Waste sector	V(ID)(EN)	V(EN)
	2013	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume IV Penggunaan Lahan, Perubahan Penggunaan Lahan dan Kehutanan (LULUCF) Sektor		V(ID)(EN)	V(EN)
	2013	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume IV Waste sector		V(ID)(EN)	V(EN)

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ANNEX II: Deliverables List

GHG inventory manual for the waste sector					
40-4	2012	Manual 1 Perbaikan Tingkat Ketelitian Data Berat Sampah di TPA	Manual 1 Improvement of Data Accuracy Of Waste Disposed in SWDS	V(ID)(EN)	V(ID)(EN)
	2012	Manual 2 Survey Komposisi dan Kandungan Bahan Kering Sampah	Manual 2 Waste Composition and Dry Mater Content Survey	V(ID)(EN)	V(ID)(EN)
	2012	Manual 3 Pelaksanaan Pengumpulan dan Penantauan Data Pemda-KLH	Manual 3 Data Collecting and Monitoring Scheme Between Local Government and Ministry of Environment	V(ID)(EN)	V(ID)(EN)
40-5		GHG inventory software for the waste sector			V(ID)
		Software : SIGN Limbah Sumut v0.95 Available in Digital Copy at the Flash Drive			
40-6	2014	Report of waste stream survey in North Sumatra	Final Report Waste Stream Survey Household Dolid Waste Sector in Tebing Tinggi City, North Sumatera Province (28 Januari S/D 03 Februari 2014)	V(EN)	
			Liquid Waste Data Collection Activities in North Sumatra		V(EN)
40-7	2013	Report of waste stream survey in South Sumatra	FINAL REPORT Waste Stream Survey in Kabupaten Lahat, South Sumatera Province	V(ID)(EN)	V(ID)(EN)

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Annex2: Deliverable List

Means of Verification Available

SP 1

Output Code	Release	Title		Availability
		Bahasa	English	
1	RPJMN 2015 - 2019		RPJMN 2015 - 2019	V (EN)
2-1	RPJMD of North Sumatra & South Sumatra			
	2014	Peraturan Daerah Provinsi Sumatera Utara Nomor 5 Tahun 2014 Tentang Rencana Pembangunan Jangka Menengah Daerah (RPJMD) Provinsi Sumatera Utara Tahun 2013-2018	-	V(ID)
		RPJMD South Sumatra		V(ID)
2-2	Evaluation on the above RPJMN and RPJMD			
3	(3-1) Result of the Project mid-term review ; (3-2) Monthly & annual Project reports			
				V (EN)
4	Report by SP1 Japanese expert team			
	2011		Inception Report SP1	V(EN)
	2011		Progress Report SP1	V(EN)
5	Guideline for the development of RAD-GRK			
	2011	Pedman penyusunan rencana aksi daerah penurunan emisi gas rumah kaca		V(EN)
6	RAD-GRK of North Sumatra & South Sumatra			
	2012	Rencana Aksi Daerah Penurunan Emisi Gas Rumah Kaca Provinsi Sumatera Utara Tahun 2010-2020	Local Action Plan for Grennhouse Gas Emissions Reduction of North Sumatera PProvince 2010-2020	V (EN) V (ID)
	2012	Rencana Aksi Daerah Penurunan Emisi Gas Rumah Kaca Provinsi Sumatera Selatan Tahun 2010-2020		V (ID)
7	Guideline for MER of the implementation of RAD-GRK (on-line)			
	2015	Panduan Teknis Pengisian Pemantauan, Evaluasi, dan		V(ID)

Annex2: Deliverable List

		Pelaporan Pelaksanaan RAN-GRK dan RAD-GRK secara online		
8	MER reports of North Sumatra & South Sumatra			
	2014	PEP RAD-GRK Provinsi Sumatera Selatan Sektor Pengelolaan Limbah (Domestik)		V(ID)
9				
10	Local RAD-GRK of South Sumatra			
		RAD-GRK Sektor Kehutanan dan Lahan Gambut Tingkat Kabupaten/Kota Provinsi Sumatera Selatan		V(ID)
11	MER report of Pagaram			
	2015	Penguatan Kapasitas SDM Terkait Mitigasi Perubahan Iklim di Kota Pagaram		V(ID)
12	Report on MER for RAN-GRK and RAD-GRK by RAN-GRK secretary			
13,14	(13) North Sumatra Governor Decree on securing rice production against climate extremes. (14) M&E Plan for the implementation of the above decree			
	2014	Implementasi Adaptasi Iklim Ekstrem Sebagai Upaya Pengaman Produksi Beras di Sumatera Utara Tahun 2012-2020	Final Report: Regional Action Plan of Extreme Climate Change Adaptation As Rice Production Safeguard in North Sumatra	V (ID) V(EN)
	2012	Adaptasi Iklim Ekstrem Sebagai Upaya Pengamanan Produksi Beras di Sumatera Utara Tahun 2012-2020	Adaptation to Extreme Climate Condition As An Effort to Secure Rice Production in North Sumatra Year 2012-2020	V(ID) V(EN)
15	Strategy for Mainstreaming Adaptation into Development Planning			
	2012		Book1: The Strategy for Mainstreaming Adaptation into National Development Planning per Sector - Integration Framework	V(ID) V(EN)
	2012		Book 2: The Strategy for Mainstreaming Adaptation into National Development Planning per Sector	V(ID) V(EN)
16	RAN-API			
	2014	Rencana Aksi Nasional Adaptasi Perubahan Iklim (RAN-API)	National Action Plan for Climate Change Adaptation (RAN-API)	V (EN)
17	Draft Recommendation on the Establishment of A Secretariat for Climate Change			
	2014		Organization assessment and development stud of the Secretarial RAN-GRK	V (EN)
18	Report on M&E by RAN-API Secretariat Office			
	2014	1 (Satu) Tahun Rencana Aksi Nasional Adaptasi Perubahan Iklim		V(ID)

Annex2: Deliverable List

19	Assessment Report of Climate Risk from Spatial Planning Perspective in Study Site			
			<ul style="list-style-type: none"> - Climate Projection - Hazard Assessment - Vulnerability and Risk Assessment - Addition Scope of Work 	V(EN) V(EN) V(EN) V(EN)
20	Policy Recommendation for the Integration of Climate Change Adaptation of Climate Change Adaptation into Spatial Planning			
		Component 2: Recommendation on Climate Change Adaptation Policies for Spatial Planning	Component 2: Recommendation on Climate Change Adaptation Policies for Spatial Planning	V(ID) V(EN)
21	Draft Technical Guidance for the Integration of Climate Change Adaptation into National Development Planning			
		Komponen 3: Pedoman Integrasi Adaptasi PERubahan Iklim kedalam Perencanaan Tata Ruang	Component 3: Integration Climate Change Adaptation into Spatial Planning	V(ID) V(EN)
22	Reports of background study			
	2014	-	Final Report: Background Study Forestry RPJMN 2015 - 2019	V (EN)
	2013	-	Background Study of RPJMN 2015 – 2019 Agriculture and Food Sector	V (EN)
	2013	-	Final Report: Fisherman Terms of Trade Achievement Background Study Marine and Fisheries RPJMN 2015 - 2019	V(EN)
	2013	-	Executive Summary: Fisherman Terms of Trade Achievement Background Study Marine and Fisheries RPJMN 2015 - 2019	V(EN)
	2014	-	Background Study RPJMN 2015-2019: Study of Cross-Sectoral Policy and Program on Climate Change Countermeasure	V(EN)
	2013	-	Final Report: Background Study RPJMN 2015-2019 Environmental Development Index	V(EN)
	-	-	Indonesia Integrated Energy, Economic and Environmental Modeling (I2E3M) Background Study RPJMN 2015-2019	V(EN)
	2014		Energy and Mining Sector Contribution Projection Model Development: Econometric Input-Output Model	V (EN)
	2014		Executive Summary: Energy and Mining Sector Contribution Projection Model Development: Econometric Input-Output Model	V (EN)
	2014		Energy Supply and Demand Projection Model Development and Indicators of Energy Resilience and Clean Energy – Background Study of RPJMN 2015-2019	V (EN)
2014		Identification Study of Food Security and Consumer Preference on Staple Food Consumption: Rice (Paddy), Soybean, Cooking Oil (Palm), and Red Onion	V (EN)	

Annex2: Deliverable List

	2014		Identification Study of Food Security and Consumer Preference on Staple Food Consumption: Corn, Meat, Sugar, and Chili	V (EN)
	2013		Farmers Terms of Trade Analysis as a Preparation of national Midterm Development Planning 2015-2019	V (EN)
	2014		Wok Report of Modeling Software Development: Integrated Energy Security And Clean Energy Model (IESCEM)	V (EN)
23-1 (same as no.1)	RPJMN 2015 - 2019			
				V(EN)
23-2 Same as no 2-2	Evaluation Based on RPJMN			

**Last Update October 20, 2015*

Means of Verification Available

SP 2

Output Code	Release	Title		Availability
		Bahasa	English	
24	Monthly and Annual Report			
			Same with (3-2) Output (SP1)	v(JP)
25	Government Document			
		Panduan dan Petunjuk Teknis Asuransi Usaha Tani Padi (AUTP)	General Guideline and Technical Guidebook on Agricultural Insurance	v(EN) v(ID)
	2012	Kebijakan Dasar Program Asuransi Pertanian	Basic Policy Agriculture Insurance Program (2011)	V(ID) V(EN)
	2012	Petunjuk Teknis Asuransi Usahatani Padi	Technical Guideline of Agriculture Insurance Program (2011)	V(ID) V(EN)
	2012	Pedoman Umum Program Asuransi Pertanian	General Guideline of Agriculture Insurance Program (2011)	V(ID) V(EN)
26-1	RPJMN 2015-2019			
			Same as output (1) and (23)	v(EN)
26-2	Evaluation based on RPJMN			
27	Lessons learnt report compiled by Takama San			
	2013		Dr. Takama , JICA Expert Final Report	V(EN)
28	Maps and Reports on vulnerability assessment			
	2013	Peta Kerentanan Perubahan Iklim Terhadap Sektor Pertanian di Provinsi Bali		V(ID)
	2013	Guideline Pembuatan Peta Perubahan Iklim Terhadap Sektor Pertanian di Bali Tahun 2013.		V(ID)
	2014		Japanese Technical Cooperation for Capacity	V(EN)

			Development for Vulnerability Assessment (Sub-Project 2)	V(JP)
29	A model package of training on climate change adaptation at farm level, consisting (1) documentation of the way of conducting training, with curriculum, modules, texts and materials, and (2) monitoring and evaluation plan, with tests and questionnaires			
2014	Modul Informasi Cuaca dan Iklim untuk Pertanian (Modul 1) Modul Mitigasi, Adaptasi dan Antisipasi Perubahan Iklim (Modul 2) Modul Pengelolaan Lahan dan Air (Modul 3) Modul Konservasi Sumber Daya Air (Modul 4) Modul Pengantar Kalender Tanam (Modul 5) Modul Penguatan Kelembagaan Petani (Modul 6) Modul Pengelolaan Sistem Jaringan Irigasi Permukaan dan Air Tanah (Modul 7) Modul Sistem Intensifikasi Padi (SRI) (Modul 8) Modul Pengembangan Agribisnis Terpadu Melalui Pengolahan Limbah Pertanian (Modul 9)	Module on Weather and Climate Information for Agriculture (Module 1) Module on Mitigation, Adaptation, and Anticipation of Climate Change (Module 2) Module on Land and Water Management (Module 3) Module on Water Resources Conservation (Module 4) Module on Introduction to Cropping Calendar (Module 5) Module on Strengthening Farmer's Institution (Module 6) Module on Management of Surface and Ground Water Irrigation Network System (Module 7) Module on System of Rice Intensification (Module 8) Module on Development of Integrated Agribusiness through Agricultural Waste Processing (Module 9)	V (EN) V(ID)	
2015	Laporan Kegiatan Pilot (TOT, TOF, Over all)	Training Report (TOT, TOF, Over all)	V(ID) V(EN)	
2015	Rencana Monitoring & Evaluasi	Monitoring & Evaluation Plan	V(ID) V(EN)	
30	Reports by local expert team, including proposals for adaptation actions			
2013		Strengthening Farmers' Initiatives for Better Climate Change Adaptation Rapid Assessment on Activity to Enhance The Adaptive Capacity of Farmers to Climate Change	V(EN)	
2013		Identification of Suitable Pilot Locations and Target Farmer's Group SP2 program Objective 2	V(EN) V(ID)	
2014	Identification and preparation proposal reports	Laporan identifikasi dan proposal persiapan	V(EN)(ID)	
32	Recommendation on the way-forward			

		Panduan Pelatih (General TOT, TOF)	Training Guideline (General, TOT, TOF)	V(ID) V(EN)
33	Additional Survey to be conducted			
			Assessment of Farmer Demand for Crop Insurance: A Case Study in Indonesia	V(EN)
			Assessment of Use Climate Information Among Farmers: A Case Study in Indonesia	V(EN)
34	Report of pilot activities			
	2013		Rice Crop Insurance Pilot Project in Indonesia: An Implementation Review	V(EN)
	2013-2014	Draft Laporan Akhir: Desain Detail Kegiatan Percontohan Asuransi Pertanian di Provinsi Jawa Timur Laporan 1: Kriteria calon lokasi percontohan dan calon petani/kelompok tani bertanggung Laporan 2: Tinjauan terhadap Asuransi Usaha Tani Padi Berbasis Ganti Rugi (Indemnity) yang Saat ini Diadopsi, Dibandingkan dengan Model-Model Skema Asuransi Usaha Tani Padi Lainnya Laporan 3: Desain Detail Pelaksanaan Asuransi Tanaman Padi Laporan 4: Pelaksanaan Persiapan Kegiatan Percontohan	Final Report : Detailed Design of Pilot Activity on Crop Insurance in East Java Province Report 1: Criteria of Prospective Pilot Sites and Insured Farmers/Farmer's Group Report 2: Review on Indemnity-based Rice Crop Insurance Currently Adopted as Compared to Other Models of Rice Crop Insurance Scheme Report 3: Detailed Design of Rice Crop Insurance Implementation Report 4: Implementation of Preparation of the Pilot Project	V(EN) V(ID)
	2014	Laporan aktivitas uji coba - ToR sosialisasi - Sosialisasi - Implementasi - Monitoring dan evaluasi	Pilot activity reports - Socialization ToR - Socialization - Implementation - Monitoring and evaluation	v
			Report on Rice Crop Insurance Pilot Project in East Java – the Lessons Learned	V(EN)
35	Report on relevant issues submitted by local resource persons, including on the report on a range of agricultural risk mitigation instruments			

	2014		Desk-Top Analysis on Indemnity-Based Rice Crop Insurance	V(EN)
	2014		Desk-Top Analysis on Weather/Climate Index-Based Insurance	V(EN)
	2014		Factors Affecting Rice Crop Insurance Application	V(EN)
36	Compilation of presentations by Japanese short-term expert and other relevant material			
	2014		Presentations and trip report to Japan 1-7 June 2014	V(EN)
			Presentation material by MR. Morisitha and Mr. Yasuda	V(EN)
37	General guideline and technical guidebook on agricultural insurance			
	2012	Panduan dan Petunjuk Teknis Asuransi Usaha Tani Padi (AUTP)	General guideline and technical guidebook on agricultural insurance	V(EN) V(ID)
	2014	Panduan pelaksanaan uji coba asuransi pertanian	Piloting guideline	V(EN) V(ID)
38	Roadmap on the introduction of agricultural insurance			
		Peta Jalan Asuransi Pertanian di Indonesia 2015-2019	Roadmap of Agricultural Insurance in Indonesia 2015 - 2019	V(EN) V(ID)

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Means of Verification Available

SP 3

Output Code	Release	Title		Availability
		Bahasa	English	
39				V(EN)
40-1	2013		Annex I Draft National GHG Inventory Report: year 2008, Greenhouse Gas Inventory of Indonesia year 2008 [DRAFT REPORT do not quote] Volume IV Penggunaan Lahan, Perubahan Penggunaan Lahan dan Kehutanan (LULUCF) Sektor	V(EN)
	2014		Preliminary Review of the GHG inventory prepared in 2014 Volume IV Waste sector	V(EN)
40-3	2013	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume III Agriculture Sector	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume III Agriculture Sector	V(EN) V(ID)
	2013	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories : Volume II Industrial Processes and Product Use (IPPU) Sector	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories : Volume II Industrial Processes and Product Use (IPPU) Sector	V(EN) V(ID)
	2013	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume I Energy Sector	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume I Energy Sector	V(EN) V(ID)
	2013	Step-by-step Manual for estimating GHG emissions and	Step-by-step Manual for estimating GHG emissions and	V(EN)

		removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume IV Penggunaan Lahan, Perubahan Penggunaan Lahan dan Kehutanan (LULUCF) Sektor	removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume IV Penggunaan Lahan, Perubahan Penggunaan Lahan dan Kehutanan (LULUCF) Sektor	V(ID)
	2013	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume IV Waste sector	Step-by-step Manual for estimating GHG emissions and removals using the 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume IV Waste sector	V(EN) V(ID)
40-4				
	2012	Manual 1 Perbaikan Tingkat Ketelitian Data Berat Sampah di TPA	Manual 1 Improvement of Data Accuracy Of Waste Disposed in SWDS	V(ID)(EN)
	2012	Manual 2 Survey Komposisi dan Kandungan Bahan Kering Sampah	Manual 2 Waste Composition and Dry Mater Content Survey	V(ID)(EN)
	2012	Manual 3 Pelaksanaan Pengumpulan dan Pemantauan Data Pemda-KLH	Manual 3 Data Collecting and Monitoring Scheme Between Local Government and Ministry of Environment	V(ID)(EN)
40-5				
		Software : SIGN Limbah Sumut v0.95 Available in Digital Copy at the Flash Drive		V(ID)
40-6				
	2014		Final Report Waste Stream Survey Hosehold Dolid Waste Sector in Tebing Tinggi City, North Sumatera Province (28 Januari S/D 03 Februari 2014)	V(EN) V(ID)
			Liquid Waste Data Collection Activities in North Sumatra	V(EN)
40-7				
	2013	LAPORAN AKHIR Survey Timbulan Sampah di Kabupaten Lahat, Provinsi Sumatera Selatan	FINAL REPORT Waste Stream Survey in Kabupaten Lahat, South Sumatera Province	V(ID)(EN)

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Annex3: Actual Project Operation

Sub-project 1

			June 21, 2013															
			2010	2011			2012			2013			2014			2015		
		Joint coordinate committee																
		Mid-term Review/ Terminal Evaluation																
		Schedule of CDP																
		Indonesia Counterpart & Cooperating Agencies																
		Japanese Side																
1. The capacity to formulate mitigation actions in a monitored, evaluated and reported manner in the pilot sector(s) or sub-sector(s) is enhanced.																		
1.1 Support for NAMA development																		
1.1.1	Collect NAMA submitted by the Non-Annex I countries responding to the Copenhagen Accord, and categorize NAMA by type (strategies, programs, or projects, national or local, etc.)	BAPPENAS	Experts		→													
1.1.2	Formulate a matrix of potential types of NAMA and associated MRV in terms of purposes, objectives, implementation structures, costs and benefits, etc. in line with international obligations	BAPPENAS, Relevant Ministries and Agencies	Experts		→													
1.1.3	Develop criteria for selecting pilot processes and pilot sector(s) or sub-sector(s) from mitigation actions relating to Promotion of Energy Efficiency, Reduction in Solid and Liquid Waste, and Shifting to Low-Emission Transportation Mode	BAPPENAS	Experts	→														
1.1.4	Select pilot processes and pilot sector(s) or sub-sectors based on the criteria	BAPPENAS	Experts	→														
1.1.5	Summarize existing key policies, strategies and plans related to climate change mitigation in the selected pilot sector(s) or sub-sector(s)	BAPPENAS, Relevant Ministries and Agencies	Experts		→													
1.1.6	Formulate a matrix in the selected pilot sector(s) or sub-sector(s) based on the format of the matrix prepared in the Activity 1.1.2.	BAPPENAS, Relevant Ministries and Agencies	Experts		→													
1.1.7	Conduct a workshop for the dissemination of the matrix to stakeholders in Indonesia	BAPPENAS, Relevant Ministries and Agencies	Experts		→													
1.1.8	Identify needs and priorities to formulate and implement NAMA in the selected pilot processes in the selected pilot sector(s) or sub-sector(s)	BAPPENAS, Relevant Ministries and Agencies, Relevant Provincial	Experts		→													
1.1.9	Make a shortlist of NAMA based on the needs and priorities in the selected pilot processes in the selected pilot sector(s) or sub-sector(s)	BAPPENAS, Relevant Ministries and Agencies, Relevant Provincial	Experts			→												
1.2 Support for RAN-GRE and RAD-GRE																		
1.2.1	Support for the development of RAD-GRE related guidelines	BAPPENAS, Relevant Ministries and Agencies	Experts, Local Assistants			→												
1.2.2	Promote the socialization of RAN-GRE and RAD-GRE guidelines to stakeholders	BAPPENAS, Relevant Ministries and Agencies	Experts, Local Assistants			→												
1.2.3	Support for the establishment of the RAN-GRE Secretariat	BAPPENAS	Experts, Local Assistants			→												
1.2.4	Provide managerial, technical and administrative support for the operation of the RAN-GRE Secretariat	BAPPENAS	Experts, Local Assistants			→												
1.2.5	Facilitate every provincial government for development of RAD-GRE by providing comprehensive support through the RAN-GRE Secretariat	BAPPENAS, Relevant Ministries and Agencies	Experts, Local Assistants			→												
1.2.6	Develop RAD-GRE in the selected pilot processes	BAPPENAS, Relevant Ministries and Agencies, Relevant Provincial	Experts, Local Assistants			→												
1.2.7	Develop a guideline for monitoring, evaluation and reporting of the progress of RAN-GRE and RAD-GRE	BAPPENAS, Relevant Ministries and Agencies	Experts, Local Assistants			→												
1.2.8	Promote the socialization of the guideline for MER	BAPPENAS, Relevant Ministries and Agencies	Experts, Local Assistants			→												
1.2.9	Support for the implementation of MER in the selected pilot processes	BAPPENAS, Relevant Ministries and Agencies, Relevant Provincial	Experts, Local Assistants			→												
1.2.1	Support for the NAMA development process in national level, based on the results of activities 1.1.1-1.1.9 and 1.2.1-1.2.9.	BAPPENAS, Relevant Ministries and Agencies	Experts, Local Assistants			→												

Annex3: Actual Project Operation

			2010	2011	2012	2013	2014	2015
				0	0	0	0	0
						0		0
			0	0	0	0	0	0
Indonesian Consortium & Cooperating Agencies			Japanese Side					
3.1.4	Collect and monitor relevant data and information for the background study.	BAPPENAS, Relevant Ministries and Agencies	→					
3.1.5	Develop reports of the background study and submit to BAPPENAS.	BAPPENAS, Relevant Ministries and Agencies	→					
3.1.6	Convene (a) workshop(s) to disseminate the final reports of background study to stakeholders.	BAPPENAS, Relevant Ministries and Agencies	→					
3.1.7	Support the effective utilization of the final reports of the background study as input for the formulation of RP/RTR 2015-2019.	BAPPENAS, Relevant Ministries and Agencies	→					

Annex3: Actual Project Operation

Sub-project 2

Version: 2.0
Date: June 17th, 2013

Activity	Responsible Section/Position	2013			2014			2015											
		6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	
Wet season in pilot provinces																			
Output 1																			
1.1.1	Identify BMKG staff members for GCM downscaling, GIS and statistics trainings in Indonesia.	PUSPIKU	→																
1.1.2	Conduct the above trainings in Indonesia.	PUSPIKU		→	→														
1.1.3	Develop a vulnerability assessment report and vulnerability map on Bali as a case study.	PUSPIKU	→	→															
1.1.4	Summarize lessons learnt from the case study and understand its application potentials, constraints and uncertainties for vulnerability assessment.	PUSPIKU	→	→															
1.1.5	Develop technical manuals on vulnerability assessment.	PUSPIKU		→	→										→				
1.1.6	Conduct additional training on GCM downscaling in Japan and its follow-up in Indonesia.	PUSPIKU													→	→			
1.2.1	Identify the training needs to improve skills related to seasonal weather forecasting particularly in the area of agriculture, including communication skills of weather information with farmers.	PIKAM	→	→															
1.2.2	Identify BMKG's trainee candidates.	PUSPIKU/ PIKAM	→	→															
1.2.3	Carry out the training in Japan and its follow-up in Indonesia.	PUSPIKU/ PIKAM	→	→	→	→	→	→											
1.2.4	Develop a training report.	PUSPIKU/ PIKAM																	
1.3.1	Support the BMKG's gap assessment on its current and required capacity to meet the policy needs of ministries concerned.	PUSPIKU	→	→															
1.3.2	Draft a gap assessment report.	PUSPIKU	→	→															
1.3.3	Have consultation meetings with concerned ministries/agencies about the role of BMKG in vulnerability assessment.	PUSPIKU	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→	→
1.3.4	Develop regular operational tasks in BMKG for vulnerability assessment.	PUSPIKU																	
1.3.5	Support the operation of regular operational tasks above in BMKG as necessary.	PUSPIKU																	
1.4.1	Identify the needs and participant(s) for study.	PUSPIKU/ PUSLITBANG	→	→															
1.4.2	Develop a study proposal on climate impacts and agriculture including climate index.	PUSPIKU/ PUSLITBANG		→	→	→	→	→											
1.4.3	Carry out the above study.	PUSPIKU/ PUSLITBANG																	
1.4.4	Develop a study report including lessons learnt.	PUSPIKU/ PUSLITBANG																	
Output 2																			
2.1.1	Select the pilot sites in the target provinces (East Java, South Sulawesi, West Java, and Central Java) based on the criteria including their readiness to start pilot activities by the beginning of next wet season.	Directorate of Irrigation Water Management, MOA	→																
2.1.2	Establish AWS/simple climate recorder with WUA in the pilot sites.	Directorate of		→															

Annex3: Actual Project Operation

Activity	Responsible Section/Position	2013					2014					2015																		
		6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10
	MOA																													
3.2.1 Conduct a study on a range of agricultural risk mitigation instruments.	BAPPENAS/ MOA																													
3.2.2 Conduct a desk-top analysis with field surveys on various crop insurance models (i.e. cost-of-production base, yield base, weather-index base) for specific agro-ecosystem and different agricultural commodities.	Directorate of Agricultural Finance, MOA																													
3.2.3 Plan and conduct a study visit for good practices on climate resilient agricultural development.	BAPPENAS/ MOA																													
3.2.4 Hold consultation meetings with the insurance industry and relevant stakeholders during the analysis.	Directorate of Agricultural Finance, MOA																													
3.2.5 Develop a general guideline and technical guidebook on crop insurance, incorporating the information produced in project activities.	Directorate of Agricultural Finance, MOA																													
3.3.1 Organize promotion meetings for the insurance industry on crop insurance.	Directorate of Agricultural Finance, MOA																													
3.3.2 Carry out assessment to examine factors/fundamentals of crop insurance such as coverage rate, policy premium, definition of claim, and structure of insurance tariff rate, incorporating the feedback from activities 3.1 and 3.2.	Directorate of Agricultural Finance, MOA																													
3.3.3 Assist policy discussion meetings at national and local levels on crop insurance to share the information produced in project activities.	Directorate of Agricultural Finance, MOA																													
3.3.4 Provide technical inputs in terms of crop insurance for the development of Ministerial Decree and Technical Guideline in respect to Farmer Empowerment and Protection Bill.	Directorate of Agricultural Finance, MOA																													
Sub-JCC Meeting (as project management activity)	Directorate of Agricultural Finance, MOA																													

Abbreviation: BAPPENAS (National Development Planning Agency), PUSPIKU (Center for Climate Change and Air Quality), PIKAM (Center for Climate, Agroclimate and Maritime Climate), PUSLITBANG (Center for Research and Development), BMKG (Meteorology, Climatology and Geophysics Agency) and MOA (Ministry of Agriculture)

Annex3: Actual Project Operation

Activity	Responsible Section/ Position	2011					2012					2013					2014					2015																																		
		4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10																								
Sub-JCC Meeting (as project management activity)	KLH																																																							
Mid-Term Evaluation																																																								

Annex4: Long-term expert

	Name	Field of expertise		Period	
1	Masato KAWANISHI	Chief Adviser/Climate change	Umbrella	July29,2010	Oct 25,2015
2	Wataru ONO	Project Coordinator	Umbrella	August , 2011	June ,2013
3	Masami BOLT	Project Coordinator	Umbrella	Oct 26,2013	Oct 25,2015
4	Takeshi TAKAMA	Vulnerability Assessment	SP 2	Sep 19,2010	Oct18,2013
5	Hiroshi ITO	GHG Inventory	SP 3	Sep14,2011	Nov 22,2013
6	Junko NOGUCHI	Project Coordinator/Climate Change Mainstreaming	Umbrella	Sep 6,2012	Sep 5,2014
7	Junko MORIZANE	Project Coordinator/Climate Change Mitigation	Umbrella	July 5,2012	Oct 25,2015
8	Kazuki MATSUURA	Project Coordinator/Climate Change Policy	Umbrella	August 6,2014	Oct 25,2015

Annex5: Short-term expert

(As of May 2015)

Sub-Project 1

	Field of expertise	Total days	M/M
1	Team Leader	141	4.70
2	Deputy Team Leader	67	2.23
3	Climate Change Policy I NAMA&MRV	66	2.20
4	Climate Change Policy I Adaptation Measures 1	74	2.47
5	Mitigation Measures in Energy Efficiency 1	30	1.00
6	Mitigation Measures in Energy Efficiency 2	38	1.27
7	Mitigation Measures in Waste Management 1	35	1.17
8	Mitigation Measures in Waste Management 2 /Development Planning	214	7.13
9	Adaptation Measures 2	58	1.93
10	Administrator/ Adaptation Measures	270	9.00

Sub-Project 2

	Field of expertise	Total days	M/M
1	Training Follow-up	7	0.23
2	Vulnerability Assessment	64	2.13
3	Climate Change Projection / Downscaling 1	133	4.43
4	Downscaling 2	10	0.33

Sub-Project 3

	Field of expertise	Total days	M/M
1	Leader/national system development	285	9.50
2	Inventory Compilation 1	96	3.20
3	Inventory Compilation 2	53	1.77
4	QA/QC	27	0.90
5	GHG Inventory(Eenergy)	85	2.83
6	GHG Inventory(Industrial process)	84	2.80

Annex5: Short-term expert

7	GHG Inventory (Agriculture)	76	2.53
8	GHG Inventory (LULUCF 1)	102	3.40
9	GHG Inventory (LULUCF 2)	13	0.43
0	GHG Inventory (Waste 1)	414	13.80
11	GHG Inventory (Waste 2)	41	1.37
12	Pilot project (Waste 1)	258	8.60
13	Pilot project (Waste 2)	114	3.80
14	Pilot project (Waste 3)	13	0.43
15	Coordination/capacity building	40	1.33

Annex6: Training in Japan

Long-term training

	Name	Ministry	Title / Division	Training Subject	Training Institution/Place	Term
1	Muhammad Addip Novianto	BMKG	Staff / Center for Climate Change and Air Quality of BMKG	Master Course (College of Agriculture)	Ibaragi University	From: April, 2011 To: March , 2013
2	Erik Armundito	BAPPENAS	Development Planner for Directorate of Environmental Affairs	Doctoral Program	Hiroshima University,	From: April, 2012 To: March, 2015
3	Jarot Indarto	BAPPENAS	Planner for Directorate of Food and Agriculture	Doctoral Program	Hiroshima University,	From: April, 2012 To: March, 2015
4	Noor Avianto	BAPPENAS	Planner for Directorate of Food and Agriculture	Master Course	Utsunomiya University,	From: April, 2012 To: March, 2014
5	Puspita Suryaningtyas	BAPPENAS	Planner for Directorate of Food and Agriculture	Master Course (Environmental Management)	Kyoto University,	From: April, 2013 To: March, 2015

Short-term training

	Name	Ministry	Title / Division	Training Subject	Training Institution/Place	Term
1	Ms.Ana			Development of Strategies on Climate Change	JICA Tsukuba International Center	From: January, 2011 To: March, 2011
2	Mr. Eric			Development of Strategies on Climate	JICA Tsukuba International Center	From: January, 2011

Annex6: Training in Japan

				Change		To: March, 2011
3	Yan Firdaus P, S.Si	BMKG	Staff / Center for Climate Change and Air Quality	Capacity Development for Adaptation to Climate Change - Climate Modeling and Analysis	ICHARM (International Center for Water Hazard and Risk Management) in Tsukuba	From: February 6, 2011 To: March 11, 2011
4	Trinah Wati	BMKG	Staff / Center for Climate Change and Air Quality	Capacity Development for Adaptation to Climate Change - Climate Modeling and Analysis	ICHARM in Tsukuba	From: February 6, 2011 To: March 11, 2011
5	Ms.Tapisari Rumonda Bulan Siregar,Ss.SE,AK	North Sumatra BAPPEDA	Staff, General and Secretary Division	Development of Strategies on Climate Change	JICA Tsukuba International Center	From : January 9,2012 To: march 3,2012
6	Agus Gunawan	KLH	Head/Development of Mitigation Instrument	Mitigation of Climate Change in the Southeast Asia and Oceania Region	JICA Tsukuba International Center	From : August 12, 2012 To : September 15, 2012
7	Arief Yuwono	KLH	Deputy for Environmental Degradation Control and Climate Change	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
8	Gatot Pujo Nugroho	Government of North Sumatera	Acting Governor	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
9	Sulistiyowati	KLH	Assistant Deputy Minister for Mitigation and Atmospheric Function Preservation	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
10	Sudirman	KLH	Assistant Deputy Minister for Waste Management	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
11	Akhmad Nadjib	BLH of South Sumatera	Head	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
12	Hidayati	BLH of North Sumatera	Head	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012
13	Endah Ambarwati	KLH	Secretary of Deputy for Environmental Degradation Control and Climate Change	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012 To : September 6, 2012

Annex6: Training in Japan

14	Dida Migfar Ridha	KLH	Head/ Division of Greenhouse Gas Inventory Unit	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012
						To : September 11, 2012
15	Hadenli Ugihan	BLH of South Sumatera	Deputy Secretary	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012
						To : September 11, 2012
16	Much. Andhy	BLH of South Sumatera	Staff	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012
						To : September 11, 2012
17	Siti Bayu Nasution	BLH of North Sumatera	Staff/Environment Monitoring Center	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012
						To : September 11, 2012
18	Fernando Sitanggang	BLH of North Sumatera	Staff	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012
						To : September 11, 2012
19	Mulkan Gani	KLH	Head/Sub-Division of Greenhouse Gas Inventory Unit	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012
						To : September 11, 2012
20	Wukir A. Rukmi	KLH	Head/Sub-Division of Greenhouse Gas Inventory Unit in Energy Sector	Capacity Development for Developing GHG Inventory	Relevant Ministries, Institutions and Private company in Tokyo, Tsukuba and Iwate	From : September 3, 2012
						To : September 11, 2012
21	Prasetyadi Utomo	KLH	Staff/Deputy Minister for Mitigation and Atmospheric Function Preservation	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From : September 9, 2012
						To : September 29, 2012
22	Issatrianda Evi Doria Hafini ZS.ST	BAPPEDA North Sumatra	Staff/Infrastructure Division	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From : September 9, 2012
						To : September 29, 2012
23	Muara Sakti Lubis, ST	BAPPEDA North Sumatra	Staff/Biodiversity and Environmental Sustainability Division	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From : September 9, 2012
						To : September 29, 2012
24	Ms.Sabitah Irwani	KLH	Staff/Deputy Minister for Mitigation and Atmospheric	Environmental Technology for Low-Carbon Society	JICA Kyushu International Center	From : September 23, 2012

Annex6: Training in Japan

			Function Preservation			To : October 25, 2012
25	Pudji Setyani, M.Si	BMKG	Staff / Center for Climate Change and Air Quality	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC (Japan Meteorological Business Support Center), JMA (Japan Meteorological Agency), MRI (Meteorological Research Institute), JAMSTEC (Japan Agency for Marine-Earth Science and Technology), Tsukuba university, NIAES (National Institute for Agro-Environmental Sciences), ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
26	Yan Firdaus P, S.Si	BMKG	Staff / Center for Climate Change and Air Quality	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
27	Zumrotul Unsuriyah, M.Si	BMKG	Staff / Center for Climate Change and Air Quality	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
28	Andriyas Aryo P, M.Si	BMKG	Staff / Center for Climate Change and Air Quality	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
29	I Nyoman Wiryajaya	BMKG	Director / Center for Climate Data & Information, BMKG Region III Denpasar - Bali	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
30	Rahmat Prasetia	BMKG	Staff / Climatology Station in Negara - Bali	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
31	Yuni Yulianti, S.Si	BMKG	Staff / Center for Climate, Agroclimate, and Maritime Climate	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
32	Radyan Putra Pradana, SP	BMKG	Staff / Center for Research and Development	Vulnerability Assessment Using Global Climate Model Outputs	JMBSC, JMA, MRI, JAMSTEC Tsukuba university, NIAES, ICHARM in Tsukuba	From: 24 September, 2012 To: 2 November, 2012
33	Dedi Harian. ST	BAPPEDA North	Staff Biodiversity and	Development of Strategies on Climate	JICA Tsukuba International Center	From: January 27, 2013

Annex6: Training in Japan

		Sumatra	Environmental Sustainability Division	Change		To: March 2,2013
34	Dr. Endah Murniningtyas	BAPPENAS	Deputy Minister for Natural Resources and Environment	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
35	Ms. Wahyuningsih Darajati,	BAPPENAS	Director for Environmental Affairs	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
36	Ms. Tri Dewi Virgiyanti	BAPPENAS	Deputy Director for Environmental Pollution and Degradation Control	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
37	Ms. Hermien Roosita	KLH	Executive Secretary	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
38	Ms. Emma Rachmawaty	KLH	Assistant Deputy Minister for Mitigation and Atmospheric Function Preservation	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
39	Ms. Wukir A. Rukmi	KLH	Head of Sub-Division of Greenhouse Gas Inventory Unit in Energy Sector	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
40	Mr. Riadil Akhir Lubis	BAPPEDA of North Sumatra	Head	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
41	Mr. Panusunan Harahap	BAPPEDA of North Sumatra	Head for Biodiversity and Environmental Sustainability Division	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
42	Ms. Regina Aryanti	BAPPEDA of South Sumatra	Head for Spatial Planning Division	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
43	Mr. Harrey Hadi	BAPPEDA of South Sumatra	Head for Economics Division	High-level Training for Climate Change Policy and Coordination in Japan	Relevant Ministries and Institutions in Tokyo, Yokohama and Kyoto	From: May 19, 2013
						To: May 26, 2013
44	Mr.Kemas Ahmad Affandi	BAPPEDA of South Sumatra	Staff, Development's Monitoring and Evaluation Division	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From: June 16,2013
						To: July 6,2013
45	Mr. Hari Wibawa	BAPPEDA of South Sumatra	Staff, Economic Division	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From: June 16,2013
						To: July 6,2013
46	Ms.Rahayu Nur Hygiawati	BAPPENAS	Deputy Director and Environmental Services	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From: June 16,2013
						To: July 6,2013

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47	Mr.Rifani Muhammad	BAPPEDA of West Kalimantan	Planner, Planning of Facilities and Infrastructure Area Division	Capacity Development for NAMA/MRV	JICA Kyushu International Center	From: June 16,2013 To: July 6,2013
48	Mr. Dida Migfar Ridha	KLH	Head/ Division of Greenhouse Gas Inventory Unit	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
49	Mr. Prihasto Setyanto	KEMENTAN	Head/Indonesian Agro Climate and Hydrology Research Institute	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
50	Mr. Iman Santosa	KEMENHUT	Head/Division of Forestry Research and Development	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
51	Ms. Emmy Suryandari	KEMENPERIN	Head/Sub-Division of Global Environment	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
52	Mr. Sandhi Eko Bramono	PU (Ministry of public works)	Sub-division of Waste	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
53	Mr. Gatot Setiawan	KLH	Staff/Inventory Unit	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
54	Mr. Prasetyadi Utomo	KLH	Staff/Inventory Unit	WGIA 11	Greenhouse Inventory Office of Japan in NIES (National Institute for Environmental Study) in Tsukuba, Japan	From : July 5, 2013 To : July 7, 2013
55	Rezawahya	BLH of South Sumatera	Staff/Subdivision Program and Accounting	Environmental Technology for Low Carbon Society	JICA Kyushu International Center	From : August 28, 2013 To : October 4, 2013
56	Indra Bangsawan Harahap	BLH of North Sumatera	Head of Sub Program	Environmental Technology for Low Carbon Society	JICA Kyushu International Center	From : August 28, 2013 To : October 4, 2013

Annex6: Training in Japan

57	Mr. Siburian Ivan Mangaratua	MOA	Climate Analyst, Directorate of Irrigation Water Management, DG of Agriculture Infrastructure & Facilities	Adaptation to Climate Change	JICA Tsukuba International Center	From: September 29,2013
						To: October 29,2013
58	Ms.Fatchiya	BMKG	Staff of center for Climate, Agroclimate and Marine	Seasonal Weather Forecasting particularly in the Area of Agriculture in Japan	Japan Metrological Agency , Tokyo Climate Center	From: November 10,2013
						To: November 30,2013
59	Ms.Ridwan Nur Prasetyo, S.Kom	BMKG	Staff of Climate Early Warning Sub Division	Seasonal Weather Forecasting paticulary in the Area of Agriculture in Japan	Japan Metrological Agency , Tokyo Climate Center	From: November 10,2013
						To: November 30,2013
60	Ms.. Tri Nurmayati,S	BMKG	Staff of Data Base Sub Division	Seasonal Weather Forecasting particularly in the Area of	Japan Metrological Agency , Tokyo Climate Center	From: November 10,2013
						To: November 30,2013
61	Mr.Herdian Deli	KLH	Technical Staff, Deputy Minister for Mitigation & Atmospheric Function	Development of Strategies on Climate Change	JICA Tsukuba International Center	From: Jan 19,2014
						To: Feb 22,2014
62	Mr. Andriyas Aryo	BMKG	Staff of Center for Climate Change and Air Quality	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase I)	Tsukuba University	From: April 1,2014
						To: June 27,2014
63	Mr. Ganesha Tri C	BMKG	Staff of Center for Climate Change and Air Quality	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase I)	Tsukuba University	From: April 1,2014
						To: June 27,2014
64	Mr.Robi Muharsyah	BMKG	Staff of Center for Climate Agroclimate and Maritime Climate	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase I)	Tsukuba University	From: April 1,2014
						To: June 27,2014
65	Mr. Mulyadi Hendiawan	MOA	Director of Agriculture Financing	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sampo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014
			Directorate general of Agricultural Infracructure and Facilities			To June 7,2014
66	Mr.Siswoyo	MOA	Head of Sub Directorate of	Agricultural Insurance and Broader Risk	Relevant Ministries, Institutions and	From June 1 ,2014

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			Syariah Financing and Cooperation, Directorate of Agriculture Financing	Management	Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompo Japan, Chiba University, Remote sensing Technology Center)	To June 7,2014
67	Mr.Rahmanto	MOA	Section Head of Cooperation, Directorate of Agriculture Financing	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014
						To June 7,2014
68	Mr.Achmad Sabar Nataprawira	MOA	Section Head of Water Conservation and Environment, Directorate of Irrigation Water Management	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014
						To June 7,2014
69	Ms. Widyastuti Djumakking	MOA	Staff of Climate, Water Conservation and Environment, Directorate of Irrigation Water Management	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014
						To June 7,2014
70	Mr.Edy Purnawan	MOA	Head of Planning Division, Secretariate of DG of Agriculture Infrastructure	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014
						To June 7,2014
71	Mr. Nono Rusono	BAPPENAS	Director, Directorate of Food and Agriculture	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014
						To June 7,2014
72	Mr. Ali Muharam	BAPPENAS	Planning Staff, Directorate of Food and Agriculture	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sompo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014
						To June 7,2014
73	Mr. Pungky Sumadi	BAPPENAS	Director, Directorate of Financial	Agricultural Insurance and Broader Risk	Relevant Ministries, Institutions and	From June 1 ,2014

Annex6: Training in Japan

			Service and State Owned	Management	Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sampo Japan, Chiba University, Remote sensing Technology Center)	To June 7,2014
74	Mr. Mohammad Mustajab	BAPPENAS	Head of Sub Directorate of Financial Services Non-Bank, Directorate of Financial Service and State Owned	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sampo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
75	Mr. S Haryo Suwakhyo	MOF	Head of Division for Climate Finance I, Center for Climate Change Financing and Multilateral Policy	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sampo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
76	Ms. Dwi Utari	MOF	Head of Sub Division for Agriculture Sector, Division for Climate Change 1, Center for Climate Change Financing and Multilateral Policy	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sampo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
77	Mr. Joko Haryanto	MOF	Head of Section for Industry, Center for Climate Change Financing and Multilateral Policy	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sampo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
78	Ms. Yani Farida Aryani	MOF	Head of Sub Division for Food and Other Subsidy, Center for State Budget Policy	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sampo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
79	Mr. Sahata L. Tobing	PT Asuransi Jasa Indonesia (JASINDO)	Director, Retail Operation	Agricultural Insurance and Broader Risk Management	Relevant Ministries, Institutions and Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sampo Japan, Chiba University, Remote sensing Technology Center)	From June 1 ,2014 To June 7,2014
80	Mr. Devy Angga Mulia	PT Asuransi Jasa	General Manager of Retail	Agricultural Insurance and Broader Risk	Relevant Ministries, Institutions and	From June 1 ,2014

Annex6: Training in Japan

		Indonesia (JASINDO)	Technical, Retail Operation	Management	Companies (MOFA, NOSAI, Tokyo Marine Holdings, Sampo Japan, Chiba University, Remote sensing Technology Center)	To June 7,2014
81	Evan Oktavianus	MOF	Policy Analyst Climate change Division	Development of Strategies on Climate Change	JICA Tsukuba International Center	From: July27,2014 To: Sep6, 2014
82	Mr.Ali Muharam	BAPPENAS	Planning Staff, Directorate of Food and Agriculture	Capacity Development for NMA/MRV	JICA Kyushu International Center	From September 7,2014 To October 1,2014
83	Mr. William Pandapotan Simamora	BAPPENAS	Functional Staff, Directorate of Energy, Mineral and Mining	Capacity Development for NMA/MRV	JICA Kyushu International Center	From September 7,2014 To October 1,2014
84	Mr.Junner Sihaloho	East Java Provincial Government	Staff of Energy and Mineral Resources and the Environment, Natural Resources Administration Bureau	Capacity Development for NMA/MRV	JICA Kyushu International Center	From September 7,2014 To October 1,2014
85	Mr.Doni Janarto Widiantonono	PU (Ministry of public works)	Deputy director of general planning	Adaptation to Climate Change	JICA Tsukuba International Center	From September 28, 2014 To October 25,2014
86	Ms.Nuki Harniati	PU (Ministry of public works)	Head of section of monitoring and evaluation of national development planning	Adaptation to Climate Change	JICA Tsukuba International Center	From September 28, 2014 To October 25,2014
87	Asri Susilawati	BMKG	Meteorologist, Remote Sensing Division	Reinforcement of Meteorological Services	JICA Tokyo International Center	From: Sep15,2014 To: Dec13, 2014
88	Mr. Ganesha Tri Chandrasa	BMKG	Staff of Center for Climate Change and Air Quality	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase II)	Tsukuba University	From September 29,2014 To December 6,2014
89	Mr.Andriyas Aryo Prabowo	BMKG	Staff of Center for Climate Change and Air Quality	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase II)	Tsukuba University	From September 29,2014 To December 6,2014
90	Mr.Robi Muharsyah	BMKG	Staff of Center for Climate Agroclimate and Maritime Climate	WRF Downs calling for Vulnerability Assessment with Climate Change (Phase II)	Tsukuba University	From September 29,2014 To December 6,2014
91	Mr.Radyan Putra	BMKG	Staff of Climate and Air Quality, research and development center	Vulnerability Assessment in Agriculture Sector	National Institute for Agro-Environmental Science	From September 29,2014 To December 20,2014

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92	Mr.Dedy Swandry	BMKG	Staff of Center for Agro Climate and Marine Climate	Vulnerability Assessment in Agriculture Sector	National Institute for Agro-Environmental Science	From September 29,2014 To December 20,2014
93	Mr.Widada Sulistya	BMKG	Deputy Director General for Climatology	Practices in Vulnerability Assessment	Japan Metrological Agency, Tokio Marine, Sompo Japan, Tsukuba University, Kyoto University	From October 12,2014 To October 18,2014
94	Mr. Dodo Gunawan	BMKG	Director, Center for Climate Change & Air Quality	Practices in Vulnerability Assessment	Japan Metrological Agency, Tokio Marine, Sompo Japan, Tsukuba University, Kyoto University	From October 12,2014 To October 18,2014
95	Mr. Ardhasena Sopaheluwakan	BMKG	Head of Climate Analysis and Information sub-division, Center for Climate Agro and Marine Climate	Practices in Vulnerability Assessment	Japan Metrological Agency, Tokio Marine, Sompo Japan, Tsukuba University, Kyoto University	From October 12,2014 To October 18,2014
96	Mr. Kristanto Hadi,S.Si	PU	Staff of Directorate of National Planning and Development, Directorate General of Spatial Planning and Development (DGSP)	Vulnerability Assessment and Land Use Planning	Tsukuba University	From November 24,2014 To December 20,2014
97	Ms.Ratu vebey Renita	PU	Professional Staff/Officer at Directorate of Urban Development, DGSP	Vulnerability Assessment and Land Use Planning	Tsukuba University	From November 24,2014 To December 20,2014
98	Mr.IDG Junnaedhi	ITB	Lecturer in Meteorology Program	Vulnerability Assessment and Land Use Planning	Tsukuba University	From November 8,2014 To December 20,2014
99	Ir. H. Doddy Imron Cholid, M.S.	Ministry of Agrarian and Spatial Planning	Deputy of Land Regulation and Land Control, Ministry of Agrarian and Spatial Planning/National Land Agency	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
100	DR.Ir. Budi Situmorang, MURP	Ministry of Agrarian and Spatial Planning	Director of National Spatial Plan, Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
101	DR.Dra. Lina Marlia,	Ministry of	Secretary of Directorate General	Mainstreaming of Climate Change to Spatial	JICA Tokyo International Center	From April 18,2015

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	CES	Agrarian and Spatial Planning	of Spatial Planning	Planning	Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	To April 26,2015
102	Reny Windyawati, ST, MSc.	Ministry of Agrarian and Spatial Planning	Deputy Director of National Spatial Plan for Western Indonesia (Region I), Directorate of National Spatial Plan, Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
103	Ir. Sita Indrayani	Ministry of Agrarian and Spatial Planning	Deputy Director of Inter-Sectoral Coordination, Directorate of National Spatial Plan, Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
104	Dra. Desfitriza, MT	Ministry of Agrarian and Spatial Planning	Deputy Director of Regional Spatial Planning Policies for for Eastern Indonesia (Region II), Directorate of Regional Spatial Plan for Eastern Indonesia (Region II), Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
105	Klaudia Oktarini Sembiring, ST, MT, MSc.	Ministry of Agrarian and Spatial Planning	Head of Section of National Spatial Planning for Java Island (Region I-B), Directorate of National Spatial Plan, Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
106	Endang Sihsetyaningrum, ST, ME	Ministry of Agrarian and Spatial Planning	Head of Section of Program and Technical Regulation, Directorate of Regional Spatial Plan for Eastern Indonesia (Region I), Directorate General of Spatial Planning	Mainstreaming of Climate Change to Spatial Planning	JICA Tokyo International Center Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	From April 18,2015 To April 26,2015
107	Gumelar Wahyu	Ministry of	Professional Staff on Section of	Mainstreaming of Climate Change to Spatial	JICA Tokyo International Center	From April 18,2015

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	Gumilang, SE, MT.	Agrarian and Spatial Planning	Foreign Affair, Directorate of Programming and Partnership, Directorate General of Spatial Planning	Planning	Tohoku Regional Bureau, MLIT Urban development Bureau, Bureau of port and harbor, TMG, Hiroshima Mayor office.	To April 26,2015
108	Ms.Farida Yulistianingrum	BAPPENAS	Planning Staff, Directorate of Forestry and Water Resource Conservation	Development of Strategies on Climate Change (A)	JICA Tsukuba International Center	From June 21,2015 To August1,1015
109	Mr. Ifan Martino	BAPPENAS	Planner, Directorate of Food and Agriculture	Development of Strategies on Climate Change (A)	JICA Tsukuba International Center	From June 21,2015 To August1,1015
110	Ms.Wesly Febriyanta Sinulingga	MOF (Fiscal Policy Agency)	Researcher , Center for Climate Finance and Multilateral Policy	Development of Strategies on Climate Change (A)	JICA Tsukuba International Center	From June 21,2015 To August1,1015
111	Ms. Ania Supeni	BMKG (Agency for Meteorology , Climatology and Geophysics)		Development of Strategies on Climate Change (A)	JICA Tsukuba International Center	From June 21,2015 To August1,1015
112	Mr. Brahmantio Isdijoso	MOF	Director of State Financial Risk Management	NOSAI and Agriculture Insurance, the case in Japan	NOSAI, Tokio Marine, Chiba University, Chiba NOSAI	From September 24, 2015 To September 28, 2015
113	Mr. Tony Prianto	MOF	Acting Head for Subdirectorate of SOE Risk Mitigation, Directorate of State Financial Risk Management	NOSAI and Agriculture Insurance, the case in Japan	NOSAI, Tokio Marine, Chiba University, Chiba NOSAI	From September 24, 2015 To September 28, 2015

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114	Mr. Dzulfikar Kharisma	MOF	Staff, Directorate of State Financial Risk Management	NOSAI and Agriculture Insurance, the case in Japan	NOSAI, Tokio Marine, Chiba University, Chiba NOSAI	From September 24, 2015 To September 28, 2015
115	Ms. Ratna Satyaningsih	BMKG (Agency for Meteorology , Climatology and Geophysics	Staff, Research and Development Center	Development of Strategies on Climate Change (B)	JICA Tsukuba International Center	From September 27,2015 To October 24,1015
116	Mr. Melanthon Haloho	BMKG Region I Medan	Staff, Data and Information	Adaptation to Climate Change	JICA Tsukuba International Center	From September 27,2015 To October 24,1015

Annex7: Project Operational Cost

	2010	2011	2012	2013	2014	2015 as of 2nd Quarter	Total
Umbrella	538,692,967	1,571,573,348	2,600,772,426	2,652,397,807	2,228,853,407	1,329,400,000	10,921,689,956
Sub-Project 1 Mitigation		477,213,893	3,191,687,060	3,281,794,670	2,189,497,939	183,600,000	9,323,793,562
Sub-Project 1 Adaptation		10,810,000	2,536,174,651	8,286,192,806	2,944,476,375	2,377,560,000	16,155,213,832
Sub-Project 2	276,874,832	616,903,914	480,354,764	2,353,272,857	3,193,575,092	1,511,600,000	8,432,581,460
Sub-Project 3		301,814,532	430,501,327	448,512,654	813,974,476	607,450,000	2,602,252,989
Total	815,567,799	2,978,315,687	9,239,490,228	17,022,170,795	11,370,377,290	6,009,610,000	47,435,531,799

Annex8: Equipment under the Project

Currency: Indonesian Rupiah (IDR)

Date of arrival	Equipment	Specification	Unit	Unit Price	Total Price	Provider	Installation Place	Remark
2011/3/31	ArcGIS Server 10 Workgroup Standard	431876	1	92,711,217	92,711,217.39	Nusantara Secom InfoTech IT Solution Center (NSI)	BMKG (Jakarta)	USD 7,170
2011/3/31	Notebook SONY VAIO	VPC-F217HG/BI	4	36,140,565	144,562,260.87	Nusantara Secom InfoTech IT Solution Center (NSI)	BMKG (Jakarta) and target area for trainings	USD 2,795
2011/3/31	Microsoft Windows Server Standard 2008	P73—04650	1	12,038,235	12,038,234.78	Nusantara Secom InfoTech IT Solution Center (NSI)	BMKG (Jakarta)	USD 931
2011/3/31	Buffalo TeraStation III 2.0TB NAS	TS-X2.0TL/R5	1	13,576,957	13,576,956.52	Nusantara Secom InfoTech IT Solution Center (NSI)	BMKG (Jakarta)	USD 1,050
2014/8/5	Workstation	Fujitsu Celsius W520 CLWD2B81, wide display VL243SSW,	1	112,418,478	112,418,478.26	Fujitsu	BMKG (Jakarta)	JPY 1,034,250
2014/9/26	PC (WRF downscaler)	HP ENVY h8-1580jp/CT(2013/8/18)	1	28,452,896	28,452,896	Hewlett-Packard Japan, Ltd.	BMKG (Jakarta)	JPY 233,769
2014/3/19	Server Reiner	SV110C4-33, SATCA35NR, Intel Xeon E3-1230 Quad, S1200 Server Chipset, 1TB SATA	1	9,065,000	9,065,000.00	Prodigi, Jakarta	Project office	

Annex8: Equipment under the Project

TOTAL	384,372,147.83
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Annex9: Counterpart list

Umbrella

No	Name	Title	Organization	Current C/P
1	Dr. Endah Murniningtyas	Deputy of Natural Resource and Environment	BAPPENAS	V

Sub-Project 1

No	Name	Title	Organization	Current C/P
1	Ms.Wahyuningsih Darajati	Director for Environmental Affairs	BAPPENAS	V
2	Mr. Nono Rusono, PG.DIP. Agr.Sc., M.Si.	Director for Food and Agriculture, DFG	BAPPENAS	V
3	Dr. Ms. Sri Yanti JS, MPM	Director for Marine and Fishery Affairs of, DMFA	BAPPENAS	V
4	Mr.Basah Hernowo, MA.	Director for Forestry and Water Resources Conservation, DFWRC	BAPPENAS	V
5	Dr. Monty Giriana, M.Sc., MCP,Ph.D	Director for Energy, Minerals and Mining Affairs, DEMMA	BAPPENAS	V
6	Ms. Syamsidar Thamrin	Deputy Director for Climate and Weather, Directorate for Environmental Affairs	BAPPENAS	V
7	Mr. Pungky Sumadi	Director for Financial Service and State Owned Enterprise	BAPPENAS	V
8	Ms. Tri Dewi Virgiyanti	Deputy Director for Environmental Pollution and Degradation Control Division, DEA	BAPPENAS	V
9	Mr.Mohammad Mustajab	Head of Sub Directorate of Financial Services Non- Bank	BAPPENAS	V
10	Ms. Anna Amalia	Planner, DEA	BAPPENAS	V
11	Mr. Erik Armundito	Planner, DEA	BAPPENAS	V
12	Mr. Fachrizal Alief	Supporting staff, DEA	BAPPENAS	
13	Mr. Eko Wibisono	Supporting staff, DEA	BAPPENAS	
14	Mr. Irfan Darliazi	Supporting staff, DEA	BAPPENAS	V
15	Mr. Ali Muharam	Supporting staff, DFG	BAPPENAS	V
16	Mr. Rahmat Mulianda	Supporting staff, DMFA	BAPPENAS	V

Annex9: Counterpart list

17	Ms. Setyawati	Supporting staff, DMFA	BAPPENAS	V
18	Ms. Nur Hygiawati Rahayu	Supporting staff, DFWRC	BAPPENAS	V
19	Mr. Izi Marizi	Supporting staff, DEMM	BAPPENAS	V
20	Dr. Ir. M. Basuki Hadimuljono, M.Sc. (Currently become minister of Ministry Publi Works)	Director General of DGSP	MPW	
21	Dra. Lina Marlina, CES	Secretary of DGSP	MPW	
22	Dr. Ir. Budi Situmorang, MURP	Director of National Spatial Planning and Development, DGSP	MPW (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
23	Dr. Ir. Dodo Gunawan, DEW	Head of Center Climate Change and Air Quality Center	BMKG	V
24	Reny Windyawati, ST., M.Sc.	Directorate of National Spatial Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
25	Dr. Ir. Doni J.W., M.Eng.Sc.	Directorate of Programming and Partnership, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
26	Klaudia Oktariani S, ST, MT, M.Sc.	Directorate of National Spatial Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
27	Aria Indra Purnama, ST, MUM	Directorate of National Spatial Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
28	Endra Saleh Atmawidjaja, ST, M.Sc.	Directorate of Urban Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	

Annex9: Counterpart list

29	Ir. Sufriyadi, MA.	Directorate of Regional Planning and Development for Western Java.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
30	Dra. Dosfitriza, MT.	Directorate of Regional Planning and Development for Eastern Java.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
31	Drs. Budi Suhardi, DEA	Head of Operations Development and Climate Change and Air Quality.	BMKG	V
32	Drs. Nasrullah	Head of Climate Change Information	BMKG	V
33	Stephanus Raden Kristanto, ST.,M.Eng.	Directorate of Programming and Partnership, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
34	Kristanto Hadi, S.Si.	Directorate of National Spatial Planning and Development, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
35	Gumelar Wahyu G, SE.,MT.	Directorate of Programming and Partnership, DGSP.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
35	Abdul Mutholib, ST.,MT.	Directorate of Regional Planning and Development for Western Indonesia.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
36	Muhammad Amin Cakrawijaya, ST.,MT.	Directorate of Regional Planning and Development for Eastern Indonesia.	Ministry of Agrarian and Spatial Planning <i>nee</i> Ministry of Public Works (Directorate General of Spatial Planning move to Ministry of Agrarian & Spatial Planning)	V
37	Dede Tarmana, M.Si.	Staff of Center for Climate Change and Air Quality.	BMKG	V
38	Andriyas Aryo Prabowo, M.Si.	Staff of Center for Climate Change and Air Quality.	BMKG	V

Annex9: Counterpart list

39	Ganesha Tri Chandrasa, S.Si.	Staff of Center for Climate Change and Air Quality.	BMKG	V
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Sub-Project 2

No	Name	Title	Organization	Current C/P
1	Mr. Nono Rusono	Director of Food and Agriculture (Sub-Project Director)	BAPPENAS	V
2	Mr. Anwar Sunari	Head of Sub-directorate of livestock and <i>ad-interim</i> Head of Sub-directorate of food	BAPPENAS	V
3	Mr. Ali Muharam	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V
4	Mr. Noor Avianto	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V
5	Mr. Jarot Indarto	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V
6	Ms. Dini Maghfirra	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V
7	Ms. Puspita Suryaningtyas	Staff (Functional Planner), Directorate of Food and Agriculture	BAPPENAS	V
8	Dr. Widada Sulistya, DEA	Deputy Director General for Climatology	BMKG	V
9	Dr. Edvin Aldrian	Director of Center for Climate Change and Air Quality.	BMKG	
10	Dr.Dodo Gunawan	Director of Center for Climate change and Air Quality	BMKG	V
11	Pudji Setyani, M.Si.	Staff of Center for Climate Change and Air Quality.	BMKG	V
12	Zumrotul Unsuriyah, S.Si., M.Si.	Staff of Climate Change Analysis and Information Sub Division.	BMKG	V
13	Erwin Ekasyahputera, M.Si.	Head of Sub Division for Early Warning.	BMKG	
14	Dedi Sucahyono, M.Si.	Head of Sub Division for Analysis and Information Climate Change.	BMKG	
15	Drs. Budi Suhardi, DEA	Head of Division for Operational Management Climate Change and Air Quality.	BMKG	V
16	Drs. I Wayan Suardana, MM.	Head of Bali Regional Office.	BMKG	

Annex9: Counterpart list

17	Mr.Ardhasena Sopaheluwakan	Head of Climate Analysis and Information sub division, Center for Climate Agro and Marine Climate	BMKG	V
18	Mr. Ganesha Tri Chandrasa	Staff of Center for Climate Change and Air Quality.	BMKG	V
19	Mr. Andriyas Aryo Prabowo	Staff of Center for Climate Change and Air Quality.	BMKG	V
20	Mr. Robi Muharsyah	Staff of Center for Climate Agroclimate and Maritime Climate	BMKG	V
21	Mr. Radyan Putra	Staff of Climate and Air Quality , Reserch and Development center	BMKG	V
22	Dr. Sumarjo Gatot Irianto	Director General of Agricultural Infrastructure and Facility	Ministry of Agriculture	V
23	Mr. Prasetyo Nuchsin	Director of Irrigation Water Management. Directorate of Irrigation Water Management.	Ministry of Agriculture	
24	Mr. Tunggul Iman Panudju	Director of Irrigation Water Management. Directorate of Irrigation Water Management.	Ministry of Agriculture	V
25	Mr. Yandri Ali	Head of Sub Directorate of Climate, Water Conservation, and Environment. Directorate of Irrigation Water Management	Ministry of Agriculture	
26	Ir. Rahmanto, M.Sc.	Head of Sub Directorate of Climate, Water Conservation, and Environment. Directorate of Irrigation Water Management	Ministry of Agriculture	V
27	Mr. Foyya Aquinos	Section Head of Climate; Sub Directorate of Climate; Water Conservation, and Environment; Directorate of Irrigation Water Management.	Ministry of Agriculture	
26	Ir. Lilik Winarti, M.Sc.	Section Head of Climate; Sub Directorate of Climate; Water Conservation, and Environment; Directorate of Irrigation Water Management.	Ministry of Agriculture	V
28	Mrs. Widyastuti	Staff of Climate Section; Sub Directorate of Climate, Water Conservation, and Environment ,Directorate of Irrigation Water Management	Ministry of Agriculture	V
29	Mr. Mulyadi Hendiawan	Director of Agricultural Finance	Ministry of Agriculture	V
30	Mr.Muhammad Husni	Head of Sub Directorate of Syariah Financing and Cooperation	Ministry of Agriculture	V

Annex9: Counterpart list

31	Mr. Siswoyo	Section Head of Cooperation, Directorate of Agricultural Finance	Ministry of Agriculture	V
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Sub-Project 3

No	Name	Title	Organization	Current C/P
1	Ms. Kirsfianti Linda Ginoga	Director of GHG Inventory and MRV	Ministry of Environment and Forestry	V
2	Mr. Dida Migfar Ridha	Division Head of National Greenhouse Gas Inventory on Non Land Based Sector	Ministry of Environment and Forestry	V
3	Mr. Anak Agung Gede Putra	Division Head of National Greenhouse Gas Inventory on Land Based Sector	Ministry of Environment and Forestry	V
4	Mr. Aja Munajat	Section Head of GHG Inventory for Waste sector	Ministry of Environment and Forestry	V
5	Mr. Monang Parlindungan Hasibuan	Section Head of GHG Inventory for Energy and Industry sector	Ministry of Environment and Forestry	V
6	Ms. Mamay Maesaroh	Section Head of GHG Inventory for Agriculture sector	Ministry of Environment and Forestry	V
7	Mr. Franky Zamzani	Section Head of GHG Inventory for Forestry sector	Ministry of Environment and Forestry	V
8	Mr. Gatot Setiawan	Staff of GHG Inventory for Waste Sector	Ministry of Environment and Forestry	V
9	Mr. Prasetiadi Utomo	Staff of GHG Inventory for Energy Sector	Ministry of Environment and Forestry	V
10	Ms. Emma Rachmawati	Assistant Deputy for Mitigation and Atmospheric Function Preservation	Ministry of Environment and Forestry	
11	Mr. Mulkan Gani	GHG Inventory for Energy Sector	Ministry of Environment and Forestry	
12	Ms. Wukir A. Rukmi	GHG Inventory for Waste Sector	Ministry of Environment and Forestry	
13	Dr. Ir. Ego Syahril, M.Sc.	Head of data information	Ministry of Energy	
14	Mr. Agung Wahyu Kencono	Head of data information	Ministry of Energy	V

Annex9: Counterpart list

15	Mrs. Ir. Tri Reni Budiarti	Head of the Center for Green Industry and the Environment	Ministry of Industry	
16	Dr. Ir. Ngakan Timur Antara	Head of the Center for Green Industry and the Environment	Ministry of Industry	V
17	Hr. Harry Boediorto S.	Head of Center for Partnership Studies and Transportation Services	Ministry of Transportation	
18	Dr. Muhrizal Sarwani	Head of Research and Development of Agricultural Land Resources	Ministry of Agriculture	
19	Dr. Ir. Dedi Nursyamsi, M. Agr	Head of Research and Development of Agricultural Land Resources	Ministry of Agriculture	V
20	Dr. Ir. Winny Dian Wibawa, M. Sc.	Head of Bureau Planning	Ministry of Agriculture	
21	Dr. Ir. Kasdi Subagyono, M.Sc	Head of Bureau Planning	Ministry of Agriculture	V
22	Dr. Yuyu Rahayu	Director of Inventory and Monitoring of Forest Resources	Ministry of Forestry	
23	Dr. Ruandha Agung Sugadirman	Director of Inventory and Monitoring of Forest Resources	Ministry of Forestry	V
24	Ms. Keti Anggriani	Director of Settlement Sanitation Development	Ministry of Public Works	
25	Mr. Ano Herwana, SE	Head of Sub Directorate of Environment Statistics	Statistic Bureau	
26	Mr. Ano Herwana, SE	Head of Sub Directorate of Environment Statistics	Statistic Bureau	
27	Dr. Ir. Prihasto Setyanto, M.Agr.	Head of Indonesia Agricultural Environment Research Institute (Under the Research and Development of Agricultural Land Resources)	Ministry of Agriculture	V
28	Ir. Lilih Handyaningrum, MM	Head of Environmental Assessment Division (Under the Center for Assessment on Green Industry and Environment)	Ministry of Industry	V

Annex9: Counterpart list

29	Emmy Suryandari, ST., MTM.	Head of Global Environment Sub-Division(<i>Under the Center for Assessment on Green Industry and Environment</i>)	Ministry of Industry	V
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Annex10: Local cost by Indonesia side

Currency: Indonesian Rupiah (IDR)

	2010	2011	2012	2013	2014	Total
BAPPENAS	492,795,000	600,000,000	438,340,000	450,000,000	500,000,000	2,481,135,000
PU					600,000,000	600,000,000
BMKG		410,324,600	610,000,000	735,550,000	1,079,773,000	2,835,647,600
MOA (Irrigation)				No budget allocation	429,422,850	429,422,850
MOA (Insurance)				No budget allocation	75,000,000	75,000,000
KLHK		2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	8,000,000,000
Total						14,421,205,450

Annex 11 : History of PDM

Umbrella

Annex I-1: PDM₀ (Tentative Version)

Project Title : Project of Capacity Development for Climate Change Strategies in Indonesia

Target Area : Nationwide

Target Group : BAPPENAS, BMKG, KLH, and other concerned organizations

Project Period : 2010 – 2015 (Five Years)

Version No. 0

Date : October 26th, 2010

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> National GHG Inventory Report Development plans produced by local governments 	<p>The Indonesian climate change strategies are not drastically changed.</p>
<p>Project Purpose Capacity of the key ministries and local governments concerned of the Government of Indonesia to formulate climate change policies based on the sound information and approaches is developed.</p>	<p>* According to each Sub-Project's PDM</p>	<p>* According to each Sub-Project's PDM</p>	<p>Projects and programmes for climate change mitigation and adaptation in Indonesia are steadily carried out by development partners and Indonesian government.</p>
<p>Outputs</p> <p>1-1 The capacity to formulate NAMA in a measurable, reportable, and verifiable manner in the pilot sector(s) or sub-sector(s) is enhanced.</p> <p>1-2 The capacity to integrate adaptation into development planning in the pilot areas is enhanced.</p> <p>1-3 Background study of Mid-term National Development Plan (RPJMN 2015-2019) for low carbon development policy as well as mitigation and adaptation measures necessary for Indonesia.</p> <p>2-1 BMKG and institutions concerned obtain the basic capacity of vulnerability assessment.</p> <p>2-2 The capacity of BMKG and institutions concerned on the use of climate change projection and verification (details to be discussed) is improved.</p> <p>2-3 The capacity of BMKG and institutions concerned on the assessment of adaptive capacity is improved.</p> <p>2-4 The implementation structure for vulnerability assessment based on collaboration among institutions concerned is established.</p> <p>3-1 National system for preparing national GHG inventories is designed.</p> <p>3-2 Capacity to periodically and systematically collect and compile data necessary for national GHG inventories is enhanced.</p> <p>3-3 Accuracy and reliability of GHG inventories are improved for each sector (energy, industrial processes, agriculture, land use, land-use change and forestry [LULUCF], and waste).</p>	<p>* According to each Sub-Project's PDM</p>	<p>* According to each Sub-Project's PDM</p>	<ol style="list-style-type: none"> Indonesian government secures sufficient budget to conduct vulnerability assessment and prepare national GHG inventories on a periodical basis.

Activities

* Please refer to the PDMs of each Sub-Project.

	<p>Inputs</p> <p>Japanese side</p> <ol style="list-style-type: none"> Personnel <ul style="list-style-type: none"> Long-term experts <ul style="list-style-type: none"> Chief Advisor/Climate Change Project Coordinator Sub-Chief Advisor for Sub-Project 2 Sub-Chief Advisor for Sub-Project 3 Short-term experts <ul style="list-style-type: none"> Short-term experts will be dispatched in accordance with the needs for the effective implementation of the Project. Long-term and short-term training of counterpart personnel in Japan and/or third countries In-country training Provision of equipment Local expenses for the project activities, including development of the Website and promotional materials of the Project 	<p>Indonesian side</p> <ol style="list-style-type: none"> Personnel <ul style="list-style-type: none"> Project Director (BAPPENAS) Sub-Project Directors Sub-Project Managers Counterparts Provision of the project offices and facilities necessary for the Project implementation Others <ul style="list-style-type: none"> Administrative and operational expenses Running costs for electricity, water, etc. 	<p>1. Majority of the counterpart personnel trained by the Project are retained in their respective positions.</p>
<p>Pre-condition Understanding and cooperation for the project activities are obtained from the key ministries and local governments concerned of the Indonesian government.</p>			

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ANNEX I-1: Amended PDM (Version 1.0)

Project Title : Project of Capacity Development for Climate Change Strategies in Indonesia

Project Period : October 2010 – October 2015 (Five Years)

Target Area : Nationwide, Pilot Provinces

Target Group : BAPPENAS, BMKG, MOA, KLH, and concerned local governments

Date: July 31st, 2013

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> National GHG Inventory Report Development plans produced by local governments 	
<p>Project Purpose Capacity of the key ministries and local governments concerned of the Government of Indonesia to formulate climate change policies based on the sound information and approaches is developed.</p>	<p>* According to each Sub-Project's PDM</p>	<p>* According to each Sub-Project's PDM</p>	<p>Projects and programmes for climate change mitigation and adaptation in Indonesia are steadily carried out by development partners and Indonesian government.</p>
<p>Outputs</p> <p>1-1 The capacity to formulate mitigation actions in a monitored, evaluated, and reported manner in the pilot sector(s) or sub-sector(s) is enhanced.</p> <p>1-2 The capacity to formulate the adaptation action plans, to integrate adaptation into development planning, and to monitor, evaluate and report on the progress of adaptation is enhanced.</p> <p>1-3 The background study of Mid-term National Development Plan (RPJMN) 2015-2019 for the relevant sectors (1) Food and Agriculture, 2) Marine and Fishery, 3) Forestry and Water Resources Conservation, 4) Energy, Minerals and Mining, 5) Environmental Affairs) is conducted and its reports are utilized for the formulation of RPJMN 2015-2019.</p> <p>2-1 Capacity of analysis on climate variability and change and of its communication is enhanced at BMKG.</p> <p>2-2 Climate change adaptation by farmer communities is practiced to secure rice production.</p> <p>2-3 Comprehension of the importance of crop insurance in agricultural protection is improved among stakeholders.</p> <p>3-1 National system for preparing national GHG inventories</p>	<p>* According to each Sub-Project's PDM</p>	<p>* According to each Sub-Project's PDM</p>	<p>Indonesian government secures sufficient budget to conduct activities according to each PDM as counterpart.</p>

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<p>is designed.</p> <p>3-2 Capacity to periodically and systematically manage data necessary for national GHG inventories is enhanced.</p> <p>3-3 Understanding on accuracy, transparency and reliability of GHG inventories is improved for each sector (energy; industrial processes; agriculture; land use, land-use change and forestry [LULUCF]; and waste) among key ministries and local governments.</p>			<p>Activities</p> <p>* Please refer to the PDMs of each Sub-Project.</p>	<p>Inputs</p> <p>Japanese side</p> <ol style="list-style-type: none"> 1. Experts <ul style="list-style-type: none"> - Long-term experts - Short-term experts - Local experts 2. Training in Japan <ul style="list-style-type: none"> - Long-term training - Short-term training 3. In-country training 4. Provision of equipment 5. Local expenses for the project activities, including development of the Website and promotional materials of the Project 	<p>Indonesian side</p> <p>Counterpart</p> <ol style="list-style-type: none"> 1. Assignment <ul style="list-style-type: none"> - Project Director (BAPPENAS) - Sub-Project Directors - Sub-Project Managers - Other counterpart personnel 2. Provision of the project offices and facilities necessary for the Project implementation 3. Others <ul style="list-style-type: none"> - Administrative and operational expenses - Running costs for electricity, water, etc. 	<p>Majority of the counterpart personnel trained by the Project are retained in their respective positions.</p>	<p>Pre-condition</p> <p>Understanding and cooperation for the project activities are obtained from the key ministries and local governments concerned of the Indonesian government.</p>
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Sub-project 1

ANNEX I-1: PDM₀ (Tentative Version)

Project Title : Project of Capacity Development for Climate Change Strategies in Indonesia (Sub-project 1: Low Carbon Development Strategy Project)
 Target Area : Nationwide
 Target Group : BAPPENAS, key ministries concerned of the Indonesian government

Version No. 0
 Project Period : 2010 – 2015 (Five Years)
 Date : October 26th, 2010

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> National GHG Inventory Report Development plans produced by local governments 	The Indonesian climate change strategies are not drastically changed.
<p>Project Purpose The capacity of the key ministries and local governments concerned of the Indonesian government to formulate nationally appropriate mitigation actions (NAMA) in a measurable, reported, and verifiable (MRV) manner and integrate adaptation to development planning is improved.</p>	<ol style="list-style-type: none"> The guidelines for replication of good practices are shared and utilized among stakeholders in Indonesia. 	<ol style="list-style-type: none"> The guidelines produced in the activities 1-16 and 2-12 	Projects and programmes for climate change mitigation and adaptation in Indonesia are steadily carried out by development partners and Indonesian government.
<p>Outputs</p> <ol style="list-style-type: none"> The capacity to formulate NAMA in a measurable, reportable, and verifiable manner in the pilot sector(s) or sub-sector(s) is enhanced. The capacity to integrate adaptation into development planning in the pilot areas is enhanced. Background study of Mid-Term National Development Plan (RPJMN 2015-2019) for low carbon development policy as well as mitigation and adaptation actions is formulated both in English and Bahasa Indonesia. 	<ol style="list-style-type: none"> Understanding of potential types of NAMA and associated MRV submitted by developing country Parties to the UNFCCC is obtained. Understanding of potential types of NAMA and associated MRV in the pilot sector(s) or sub-sector(s) in Indonesia is obtained. Issues of MRV are incorporated into the formulation of NAMA in the pilot sector(s) or sub-sector(s). Capacity to implement MRV is enhanced. Understanding on the linkage between development and climate change adaptation in the pilot areas is obtained. The screening tool of climate risks for development planning in the pilot area comes to be utilized. 	<ol style="list-style-type: none"> The matrix formulated in the activity 1-2 The matrix formulated in the activity 1-6 The report produced in the activity 1-12 The report produced in the activity 1-12 and 1-18 The report produced in the activity 2-8 The report produced in the activities 2-14 The study produced in the activity 3-6. 	

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Activities	Inputs	Majority of the counterpart personnel trained by the Sub-Project are retained in their respective positions.
<p>1-1 Collect NAMA submitted by the Non Annex-I countries responding to the Copenhagen Accord, and categorize NAMA by type (strategies, programs, or project; national or local; etc.).</p> <p>1-2 Formulate a matrix of potential types of NAMA and associated MRV in terms of purposes, indicators, implementation structures, merits and demerits, etc. in line with international discussions.</p> <p>1-3 Develop criteria for selecting pilot sector(s) or sub-sector(s) from mitigation actions relating to Promotion of Energy Efficiency, Reduction in Solid and Liquid Waste, and Shifting to Low-Emission Transportation Mode.</p> <p>1-4 Select pilot sector(s) or sub-sectors based on the criteria.</p> <p>1-5 Summarize existing key policies, strategies and plans related to climate change mitigation in the pilot sector(s) or sub-sector(s).</p> <p>1-6 Formulate a matrix in the pilot sector(s) or sub-sector(s) based on the format of the matrix prepared in the Activity 1-2.</p> <p>1-7 Conduct a workshop for the dissemination of the matrix to stakeholders in Indonesia.</p> <p>1-8 Identify needs and priorities to formulate and implement NAMA in the pilot sector(s) or sub-sector(s).</p> <p>1-9 Make a shortlist of NAMA based on the needs and priorities.</p> <p>1-10 Examine the feasibility of each NAMA on the shortlist, considering capacities to implement MRV.</p> <p>1-11 Identify capacity development needs for MRV.</p> <p>1-12 Produce a report on the outcomes and process.</p> <p>1-13 Convene a workshop to disseminate the report to the stakeholders in Indonesia.</p> <p>1-14 Develop an action plan on the capacity development for MRV.</p> <p>1-15 Conduct capacity development activities according to the action plan.</p> <p>1-16 Produce a guideline for replication of good practices.</p> <p>1-17 Convene a workshop to disseminate the report and guideline to the stakeholders in Indonesia.</p> <p>1-18 Produce a report on the capacity development activities, including the recommendations, lessons learned, etc.</p> <p>2-1 Develop criteria for selecting pilot areas.</p> <p>2-2 Select two pilot areas based on the criteria (one pilot area is identical to the area selected in the Sub-Project 2, and the other is selected on the basis of the criteria).</p> <p>2-3 Summarize existing key development policies, strategies and plans, etc. related to climate change adaptation in the pilot areas.</p> <p>2-4 Develop criteria for selecting effective development projects/programs as adaptation actions.</p> <p>2-5 Select the effective development project/programs based on the criteria.</p> <p>2-6 Summarize the effects, uncertainties, and constraints of the selected projects/programs.</p> <p>2-7 Identify capacity development needs for the integration of adaptation to development planning.</p> <p>2-8 Produce a report on the outcomes and process.</p> <p>2-9 Convene a workshop to disseminate the report to stakeholders in Indonesia.</p> <p>2-10 Develop an action plan for enhancing the capacity of local governments and related organizations to incorporate climate risks to development planning in the pilot sites.</p> <p>2-11 Conduct capacity development activities according to the action plan.</p> <p>2-12 Produce a guideline for replication of good practices.</p> <p>2-13 Convene a workshop to disseminate the report and guideline to the stakeholders in Indonesia.</p> <p>2-14 Produce a report on the capacity development activities, including the recommendations, lessons learned, etc.</p>	<p>Inputs</p> <p>Japanese side</p> <ol style="list-style-type: none"> Personnel Long-term experts Chief Advisor Project Coordinator Short-term experts Short-term experts will be dispatched in accordance with the needs for the effective implementation of the Project. <p>Indonesian side</p> <ol style="list-style-type: none"> Personnel Project Director Project Manager Counterparts Provision of the project offices and facilities necessary for the project implementation Others Administrative and operational expenses Running costs for electricity, water, etc. <p>2. Long-term training of counterpart personnel in Japan</p> <p>3. In-country training</p> <p>4. Provision of equipment</p> <p>5. Local expenses for the project activities, including development of the Website and promotional materials of the Project</p>	<p>1. Majority of the counterpart personnel trained by the Sub-Project are retained in their respective positions.</p> <p>Pre-condition</p> <p>Understanding and cooperation for formulation of NAMA and integration of adaptation to development planning are obtained from the key ministries and local governments concerned of the Indonesian government.</p>

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3-1 Review the progress of climate change actions under the current Mid-Term National Development Plan (RPJMN 2010-2014).
3-2 Review the recent initiatives against climate change, both international and national, as well as relevant scientific findings.
3-3 Share the results of the activities 3-1 and 3-2 as well as a draft outline of the background study of RPJMN 2015-2019 with stakeholders in Indonesia for their feedback.
3-4 Develop a draft background study of RPJMN 2015-2019 for low carbon development policy as well as mitigation and adaptation actions.
3-5 Convene a workshop to share the draft with stakeholders in Indonesia for their feedback.
3-6 Finalize background study of RPJMN 2015-2019 for low carbon development policy as well as mitigation and adaptation actions.

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ANNEX I : PDMI

Project Title : Project of Capacity Development for Climate Change Strategies in Indonesia (Sub-project 1: Low Carbon Development Strategy Project)

Target Area : Nationwide

Target Group : BAPPENAS, key ministries concerned of the Indonesian government

Version No. 1

Project Period : 2010 – 2015 (Five Years)

Date : January 2012

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> National GHG Inventory Report Development plans produced by local governments 	<p>The Indonesian climate change strategies are not drastically changed.</p>
<p>Project Purpose The capacity of the key ministries and local governments concerned of the Indonesian government to formulate nationally appropriate mitigation actions (NAMA) in a measurable, reported, and verifiable (MRV) manner and integrate adaptation to development planning is improved.</p>	<ol style="list-style-type: none"> The guidelines for replication of good practices are shared and utilized among stakeholders in Indonesia. 	<ol style="list-style-type: none"> The guidelines produced in the activities 1-16 and 2-12 	<p>Projects and programmes for climate change mitigation and adaptation in Indonesia are steadily carried out by development partners and Indonesian government.</p>
<p>Outputs</p> <ol style="list-style-type: none"> The capacity to formulate mitigation actions in a measurable, reportable, and verifiable manner in the pilot sector(s) or sub-sector(s) is enhanced, through support the RANGRK Secretariat. The capacity to integrate adaptation into development planning is enhanced. Background study of Mid-Term National Development Plan (RPJMN 2015-2019) for low carbon development policy as well as mitigation and adaptation action is formulated both in English and Bahasa 	<ol style="list-style-type: none"> 1-1. Understanding of potential types of NAMA and associated MRV submitted by developing country Parties to the UNFCCC is obtained. 2. Understanding of potential types of NAMA and associated MRV in the pilot sector(s) or sub-sector(s) in Indonesia is obtained. 3. Issues of MRV are incorporated into the formulation of NAMA in the pilot sector(s) or sub-sector(s). 4. Capacity to manage the secretariat for RAN-GRK. 5. Development of RAD-GRK in pilot areas. 2-1. Understanding on the linkage between development and climate change adaptation is obtained. 2-2. The screening tool of climate risks for development planning comes to be utilized. 3-1 The background study comes to be utilized as an input for Mid-Term National Development Plan (RPJMN2015-2019) 	<ol style="list-style-type: none"> 1-1. The matrix formulated in the activity 1-2 1-2. The matrix formulated in the activity 1-6 1-3. The report produced in the activity 1-12 1-4. The report produced in the activity 1-12 and 1-18 2-1. The report produced in the activity 2-8 2-2. The report produced in the activities 2-14 	

<p>Activities</p> <p>1-1 Collect NAMA submitted by the Non Annex-1 countries responding to the Copenhagen Accord, and categorize NAMA by type (strategies, programs, or project; national or local; etc.).</p> <p>1-2 Formulate a matrix of potential types of NAMA and associated MRV in terms of purposes, indicators, implementation structures, merits and demerits, etc. in line with international discussions.</p> <p>1-3 Develop criteria for selecting pilot sector(s) or sub-sector(s) from mitigation actions relating to Promotion of Energy Efficiency, Reduction in Solid and Liquid Waste, and Shifting to Low-Emission Transportation Mode.</p> <p>1-4 Select pilot sector(s) or sub-sectors based on the criteria.</p> <p>1-5 Summarize existing key policies, strategies and plans related to climate change mitigation in the pilot sector(s) or sub-sector(s).</p> <p>1-6 Formulate a matrix in the pilot sector(s) or sub-sector(s) based on the format of the matrix prepared in the Activity 1-2.</p> <p>1-7 Conduct a workshop for the dissemination of the matrix to stakeholders in Indonesia.</p> <p>1-8 Identify needs and priorities to formulate and implement NAMA in the pilot sector(s) or sub-sector(s).</p> <p>1-9 Make a shortlist of NAMA based on the needs and priorities.</p> <p>1-10 Examine the feasibility of each NAMA on the shortlist, considering capacities to implement MRV.</p> <p>1-11 Identify capacity development needs for MRV.</p> <p>1-12 Produce a report on the outcomes and process.</p> <p>1-13 Convene a workshop to disseminate the report to the stakeholders in Indonesia.</p> <p>1-14 Promote the socialization of RAN-GRK to stakeholders</p> <p>1-15 Provide administrative support, data, information and expertise to the Sectorial Working Group and Steering Committee for RAN-GRK</p> <p>1-16 Facilitate and help the local governments for development of RAD-GRK</p> <p>1-17 Monitor the progress of RAN-GRK/RAD-GRK implementation</p> <p>1-18 Develop RAD-GRK in pilot areas</p>	<p>Inputs</p> <p>Japanese side</p> <p>1. Personnel</p> <p>Long-term experts</p> <p>Chief Advisor</p> <p>Project Coordinator</p> <p>Climate Change Policy</p> <p>Short-term experts</p> <p>Short-term experts will be dispatched in accordance with the needs for the effective implementation of the Project.</p> <p>Local resources</p> <p>Head of Secretariat</p> <p>Assistants who handle each program (two or three)</p> <p>Assistants who are in charge of administration (one)</p> <p>Assistant in charge of IT</p> <p>2. Long-term training of counterpart personnel in Japan</p> <p>3. In-country training</p> <p>4. Provision of equipment</p> <p>5. Local expenses for the project activities, including development of the Website and promotional materials of the Project</p>	<p>1. Majority of the counterpart personnel trained by the Sub-Project are retained in their respective positions.</p>
<p>2-1 Develop criteria for selecting pilot areas.</p> <p>2-2 Select two pilot areas based on the criteria (one pilot area is identical to the area selected in the Sub-Project 2, and the other is selected on the basis of the criteria).</p> <p>2-3 Summarize existing key development policies, strategies and plans, etc. related to climate change adaptation in the pilot areas.</p> <p>2-4 Develop criteria for selecting effective development projects/programs as adaptation actions.</p> <p>2-5 Select the effective development project/programs based on the criteria.</p> <p>2-6 Summarize the effects, uncertainties, and constraints of the selected projects/programs.</p> <p>2-7 Identify capacity development needs for the integration of adaptation to development planning.</p> <p>2-8 Produce a report on the outcomes and process.</p> <p>2-9 Convene a workshop to disseminate the report to stakeholders in Indonesia.</p> <p>2-10 Establish National Advisory Council on adaptation</p> <p>2-11 Develop the draft strategy for mainstreaming adaptation into national development planning</p> <p>2-12 Conduct a workshop for dissemination of the draft strategy</p> <p>2-13 Conduct follow-up activities to facilitate better implementation of the draft strategy</p> <p>2-14 Support for the development of the national adaptation strategy</p>	<p>Indonesian side</p> <p>1. Personnel</p> <p>Project Director</p> <p>Project Manager</p> <p>Counterparts</p> <p>2. Provision of the project offices and facilities necessary for the project implementation</p> <p>3. Others</p> <p>Administrative and operational expenses</p> <p>Running costs for electricity, water, etc.</p>	<p>Pre-condition</p> <p>Understanding and cooperation for formulation of NAMA and integration of adaptation to development planning are obtained from the key ministries and local governments concerned of the Indonesian government.</p>

3-1 Review the progress of climate change actions under the current Mid-Term National Development Plan (RPJMN 2010-2014)

3-2 Review the recent initiatives against climate change, both international and national, as well as relevant scientific findings

3-3 Share the results of the activities 3-1 and 3-2 as well as a draft outline of the background study of RPJMN 2015-2019 with stakeholders in Indonesia for their feedback

3-4 Develop a draft background study of RPJMN 2015-2019 for low carbon development policy as well as mitigation and adaptation actions

3-5 Convene a workshop to share the draft with stakeholders in Indonesia for their feedback

3-6 Finalize background study of RPJMN 2015-2019 for low carbon development policy as well as mitigation and adaptation actions

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ANNEX I-1: Amended PDM (version 2.0)

Project Title: Sub-Project 1: Integration of Climate Change Mitigation and Adaptation into National Development Planning
Project Period: October 2010 - October 2015 (Five Years)
Target Area: Nationwide, Pilot Provinces including North Sumatra, South Sumatra and West Kalimantan
Target Group: BAPPENAS, key ministries and agencies of the national government, concerned local governments

Date: June 21st, 2013

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> National GHG Inventory Report Development plans produced by local governments 	/
<p>Project Purpose The capacity of the key ministries and local governments to formulate mitigation actions in a monitored, evaluated and reported manner and integrate adaptation into development planning is improved.</p>	<ol style="list-style-type: none"> The reports produced by project activities are shared and utilized among stakeholders in Indonesia. 	<ul style="list-style-type: none"> Project progress reports Workshop reports Interview with related stakeholders The Mid-Term National Development Plan (RPJMN) 2015-2019 	<ol style="list-style-type: none"> Projects under JICA's climate change cooperation program are steadily carried out. Projects and programs for climate change mitigation and adaptation in Indonesia are steadily carried out.
<p>Outputs 1. The capacity to formulate mitigation actions in a monitored, evaluated and reported manner in the pilot sector(s) or sub-sector(s) is enhanced.</p>	<ol style="list-style-type: none"> 1-1. Understanding of potential types of nationally appropriate mitigation action (NAMA) and associated measurement, reporting and verification (MRV) submitted by developing country Parties to the UNFCCC is obtained. 1-2. Understanding of potential types of NAMA and associated MRV in the pilot sector(s) or sub-sector(s) in Indonesia is obtained. 1-3. MRV is incorporated into the formulation of NAMA in the pilot sector(s) or sub-sector(s). 1-4. Guideline of the Provincial Action Plan for GHG Emission Reduction (RAD-GRK) is authorized by 	<ul style="list-style-type: none"> The matrixes formulated in the activity 1.1.2 and 1.1.6 RAD-GRK produced in the activity 1.2.6 The guideline developed in the activity 1.2.7 Report of monitoring developed in the activity 1.2.9 	

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<p>2. The capacity to formulate the adaptation action plans, to integrate adaptation into development planning, and to monitor, evaluate and report on the progress of adaptation is enhanced.</p>	<p>BAPPENAS. 1-5. RAD-GRK is issued as the governor decree in pilot provinces. 1-6. Report of monitoring of the National Action Plan for GHG Emission Reduction (RAN-GRK) and RAD-GRK is submitted to BAPPENAS in pilot provinces.</p>	<ul style="list-style-type: none"> - Officially issued policy(ies) /instruction(s) produced in the activity 2.1.4 - Officially accepted Strategy for Mainstreaming Adaptation into Developing Planning produced in the activities 2.2.2 - Officially issued RAN-API produced in the activities 2.3.2 - Project reports
<p>3. The background study for the Mid-Term National Development Plan (RPJMN) 2015-2019 for the relevant sectors (1) Food and Agriculture, 2) Marine and Fishery, 3) Forestry and Water Resources Conservation, 4) Energy, Minerals and Mining, 5) Environmental Affairs) is conducted and its reports are utilized for the formulation of RPJMN 2015-2019.</p>	<p>BAPPENAS. 1-5. RAD-GRK is issued as the governor decree in pilot provinces. 1-6. Report of monitoring of the National Action Plan for GHG Emission Reduction (RAN-GRK) and RAD-GRK is submitted to BAPPENAS in pilot provinces.</p>	<ul style="list-style-type: none"> - Approved reports produced in the activity 3.1.5 - Approved RPJMN 2015-2019

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Activities	Inputs	Assumptions
<p>1.1 Support for NAMA development</p> <p>1.1.1 Collect NAMA submitted by the Non Annex-1 countries responding to the Copenhagen Accord, and categorize NAMA by type (strategies, programs, or project; national or local, etc.).</p> <p>1.1.2 Formulate a matrix of potential types of NAMA and associated MRV in terms of purposes, indicators, implementation structures, merits and demerits, etc. in line with international discussions.</p> <p>1.1.3 Develop criteria for selecting pilot provinces and pilot sector(s) or sub-sector(s) from mitigation actions relating to Promotion of Energy Efficiency, and Reduction in Solid and Liquid Waste.</p> <p>1.1.4 Select pilot provinces and pilot sector(s) or sub-sectors based on the criteria.</p> <p>1.1.5 Summarize existing key policies, strategies and plans related to mitigation in the selected pilot provinces in the selected pilot sector(s) or sub-sector(s).</p> <p>1.1.6 Formulate a matrix in the selected pilot provinces in the selected pilot sector(s) or sub-sector(s) based on the format of the matrix prepared in the Activity 1.1.2.</p> <p>1.1.7 Conduct a workshop for the dissemination of the matrix to stakeholders in Indonesia.</p> <p>1.1.8 Identify needs and priorities to formulate and implement NAMA in the selected pilot provinces in the selected pilot sector(s) or sub-sector(s).</p> <p>1.1.9 Make a shortlist of NAMA based on the needs and priorities in the selected pilot provinces in the selected pilot sector(s) or sub-sector(s).</p>	<p>Japanese side</p> <p>1. Experts</p> <ul style="list-style-type: none"> - Long-term experts - Short-term experts - Local experts <p>2. Assistants</p> <ul style="list-style-type: none"> - Local project assistants <p>3. Training in Japan</p> <ul style="list-style-type: none"> - Long-term training (4 counterpart personnel) - Short-term training <p>4. In-country training</p> <p>As necessary</p>	<p>Majority of the counterpart personnel trained by the Sub-Project are retained in their respective positions.</p>
<p>1.2 Support for RAN-GRK and RAD-GRK</p> <p>1.2.1 Support for the development of RAD-GRK related guidelines.</p> <p>1.2.2 Promote the socialization of RAN-GRK and RAD-GRK guidelines to stakeholders.</p> <p>1.2.3 Support for the establishment of the RAN-GRK Secretariat.</p> <p>1.2.4 Provide managerial, technical and administrative support for the operation of the RAN-GRK Secretariat.</p> <p>1.2.5 Facilitate every provincial government for development of RAD-GRK by providing comprehensive support through the RAN-GRK Secretariat.</p> <p>1.2.6 Develop RAD-GRK in the selected pilot provinces.</p> <p>1.2.7 Develop a guideline for monitoring, evaluation and reporting (MER) of the progress of RAN-GRK and RAD-GRK</p> <p>1.2.8 Promote the socialization of the guideline for MER.</p> <p>1.2.9 Support for the implementation of MER in the selected pilot provinces.</p> <p>1.2.10 Support for the NAMA development process in national level, based on the results of activities 1.1.1-1.1.9 and 1.2.1-1.2.9.</p>	<p>5. Provision of equipment</p> <p>As necessary</p> <p>Pre-condition</p> <p>Understanding and cooperation for implementation of the Sub-Project are obtained from the key ministries and local governments concerned of the Indonesian government.</p>	<p>Majority of the counterpart personnel trained by the Sub-Project are retained in their respective positions.</p>
<p>2.1 Development of adaptation related policy(ies)/ instruction(s) in selected pilot area(s)</p> <p>2.1.1 Develop criteria for selecting pilot area(s) for adaptation activity.</p> <p>2.1.2 Select (a) pilot area(s) based on the criteria.</p>	<p>Indonesian side</p> <p>1. Counterpart Assignment</p> <ul style="list-style-type: none"> - Project Director - Project Manager - Project Staff <p>2. Provision of the project offices and facilities</p> <p>As necessary</p> <p>3. Administrative and operational expense</p> <p>As necessary</p>	<p>Majority of the counterpart personnel trained by the Sub-Project are retained in their respective positions.</p>

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<p>2.1.3 Support in establishing and operating a working group on adaptation in the selected pilot areas(s).</p> <p>2.1.4 Develop (a) a draft adaptation related policy(ies) /instruction(s) through the process of the working group in the selected pilot area(s) and submit to the provincial government of the selected pilot area(s).</p> <p>2.1.5 Convene a workshop to disseminate the adaptation related policy(ies) /instruction(s) to stakeholders.</p> <p>2.1.6 Support follow-up activity(ies) for the adaptation related policy(ies) /instruction(s).</p> <p>2.2 Development of the draft Strategy for Mainstreaming Adaptation into Developing Planning</p> <p>2.2.1 Establish the Advisory Council of the Strategy for Mainstreaming Adaptation into National Development Planning</p> <p>2.2.2 Develop a draft of the Strategy for Mainstreaming Adaptation into National Development Planning and submit to BAPPENAS.</p> <p>2.2.3 Conduct a workshop to disseminate the Strategy for Mainstreaming Adaptation into National Development Planning to stakeholders.</p> <p>2.3 Development and implementation of the National Action Plan for Climate Change Adaptation (RAN-API)</p> <p>2.3.1 Establish an expert team for development process of RAN-API.</p> <p>2.3.2 Facilitate the development process of RAN-API.</p> <p>2.3.3 Develop a draft of RAN-API and submit to BAPPENAS.</p> <p>2.3.4 Conduct a workshop to disseminate RAN-API to stakeholders.</p> <p>2.3.5 Select (an) appropriate pilot activity(ies) for MER on the implementation of RAN-API.</p> <p>2.3.6 Conduct (a) pilot activity(ies) for MER on the implementation of RAN-API.</p> <p>2.3.7 Produce report(s) on monitoring and evaluation of the implementation of the RAN-API in the selected pilot area(s) and submit to BAPPENAS.</p> <p>2.3.8 Support for operation of a secretariat for climate change, which includes secretariat functions of RAD-CRKK and RAN-API.</p>	<p>3.1 Conduct and follow-up of the background study for RPJMN 2015-2019</p> <p>3.1.1 Develop a work plan of the background study for RPJMN 2015-2019 with the targeted Directorates of BAPPENAS (1) Food and Agriculture, 2) Marine and Fishery, 3) Forestry and Water Resources Conservation, 4) Energy, Minerals and Mining, 5) Environmental Affairs).</p> <p>3.1.2 Establish study teams in those sectors relevant to the above Directorates.</p> <p>3.1.3 Review the current RPJMN (2010-2014) for those sectors relevant to the above Directorates.</p> <p>3.1.4 Collect and maintain relevant data and information for the background study.</p> <p>3.1.5 Develop reports of the background study and submit to BAPPENAS.</p> <p>3.1.6 Convene (a) workshop(s) to disseminate the final reports of background study to stakeholders.</p> <p>3.1.7 Support for effective utilization of the final reports of the background study as input for the formulation of RPJMN 2015-2019.</p>
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Sub-project2

Annex I-1: PDM₀

Project Title : Sub-project 2: Capacity Development for Vulnerability Assessment

Project Period : August 2010 – August 2013 (37 months)

Target Area : Jakarta(project office) and a Pilot Project Area

Version No. 0

Target Group : Direct Beneficially Group : Center for Climate Change and Air Quality of BMKG, Research Institutes concerned

Date : September 8th, 2010

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> National GHG Inventory Report Development plans produced by local governments 	<p>The Indonesian climate change strategies are not drastically changed.</p>
<p>Project Purpose Vulnerability assessment comes to be conducted in cooperation with related institutions and stakeholders concerned.</p>	<ol style="list-style-type: none"> A guideline to carry out vulnerability assessment and to produce vulnerability maps is produced. A proposal for improving the adaptive management system on vulnerability assessment and adaptation to climate change for scaling up and spreading out is produced. 	<ol style="list-style-type: none"> The guideline on the production of vulnerability maps The proposal on the improvement of adaptive management system on vulnerability assessment 	<ol style="list-style-type: none"> Projects under JICA's Climate Change Cooperation Programme are steadily carried out. Projects and programmes for climate change mitigation and adaptation in Indonesia are steadily carried out.
<p>Outputs</p> <ol style="list-style-type: none"> BMKG and institutions concerned obtain the basic capacity of vulnerability assessment. The capacity of BMKG and institutions concerned on the use of climate change projection and verification is improved. (details to be discussed) The capacity of BMKG and institutions concerned on the assessment of adaptive capacity is improved. The implementation structure for vulnerability assessment based on collaboration among institutions concerned is established. 	<ol style="list-style-type: none"> 1-1. The framework of training workshops on a basic vulnerability assessment is documented. 1-2. The reports of the training workshops are produced. 2-1. The report of training including exposure maps is developed by the training participants. 3-1. The vulnerability assessment report and vulnerability maps of a pilot project are produced 4-1. At least a domestic workshop and an international workshop are held for disseminating the results of the project. 	<ol style="list-style-type: none"> 1-1. Training materials for the workshops 1-2. The report of the workshops. 2-1. Workshop report including exposure maps by the participants 3-1. The report of the vulnerability assessment 3-2. Vulnerability maps 4-1. Workshop reports 	<ol style="list-style-type: none"> 1) Indonesian government secures sufficient budget to prepare vulnerability assessment on a periodical basis.

Activities	Inputs	Indonesian side	Majority of the counterpart personnel trained by the project is retained in their respective position.
<p>1-1. Collect and summarize previous achievement on vulnerability assessment in Indonesia in terms of the background, objectives, methodologies, tools, outputs, institutions involved and so on.</p> <p>1-2. Conduct a capacity assessment of institutions concerned on vulnerability assessment.</p> <p>1-3. Identify training needs of institutions concerned on vulnerability assessment.</p> <p>1-4. Prepare a training plan on vulnerability assessment based on the survey results in 1-2 and 1-3, including cases such as Jawa and Bali.</p> <p>1-5 Carry out the training based on the plan in 1-4.</p> <p>2-1. Identify the candidates of trainees, based on the 1-1 and 1-2, for a training course in Japan on climate change projection and verification (details to be discussed).</p> <p>2-2. Take part in the above training.</p> <p>2-3. Develop the training report, including exposure maps of climate variables in the pilot project area selected in 3-1 below (by the participants in 2-2).</p> <p>3-1. Select a pilot project area.</p> <p>3-2. Identify user needs, time constraints, and human/financial resources for implementing adaptive capacity assessment in the pilot project area.</p> <p>3-3. Collect basic information for adaptive capacity assessment in the pilot project area.</p> <p>3-4. Develop a framework and procedure of adaptive capacity assessment such as indicators, survey tools and methods.</p> <p>3-5. Share the framework and procedure developed in 3-4 with institutions concerned and, if necessary, revise them.</p> <p>3-6. Implement adaptive capacity assessment based on the framework and procedure prepared in 3-4 and 3-5.</p> <p>3-7. Develop a vulnerability assessment report and vulnerability maps, for the case study in the pilot project area, on the results of adaptive capacity assessment conducted in 3-6</p> <p>3-8. Summarize the results and lessons learned in 3-7, and understand the application potentials, constraints and uncertainties of vulnerability assessment.</p>	<p>Inputs</p> <p>Japanese side</p> <ol style="list-style-type: none"> Personnel Experts from Japan and the third countries Long-term experts Chief Advisor Project Coordinator Sub-Chief Advisor / Vulnerability Assessment Short-term experts Short-term experts will be dispatched in accordance with the needs for the effective implementation of the Project. Training of counterpart personnel in Japan and the third countries Long-term training of counterpart personnel in Japan In-country training Provision of equipment Local expenses for the project activities 	<p>Indonesian side</p> <ol style="list-style-type: none"> Personnel Project Director Project Manager Counterparts Provision of the project offices and facilities necessary for the project implementation Others Administrative and operational expenses Running costs for electricity, water, etc. 	<p>1. Majority of the counterpart personnel trained by the project is retained in their respective position.</p> <p>2. Relevant ministries and agencies continue to cooperate with BMKG.</p> <p>Pre-condition Understanding and cooperation for implementing a vulnerability assessment are obtained from the key ministries and local governments concerned of the Indonesian government.</p>

<p>3-9. Develop a guideline on vulnerability assessment including vulnerability maps for spreading out a good practice.</p> <p>3-10. Share the results of 3-8 and 3-9 with domestic potentials users.</p> <p>3-11. Disseminate the results in above activities at UNFCCC COP.</p> <p>4-1. Collect information on management system on vulnerability assessment and adaptation to climate change.</p> <p>4-2. Prepare, based on the experiences from the pilot project, a proposal for improving the adaptive management system on vulnerability assessment and adaptation to climate change for scaling up and spreading out.</p> <p>4-3. Share the results of activities above with domestic stakeholders.</p> <p>4-4. Disseminate the results in above activities at UNFCCC COP.</p>		
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Annex I-1: Amended PDM (version.2.0)

Project Title: Sub-project 2: Capacity Development for Climate Change Adaptation Actions in Agriculture and Other Relevant Sectors

Project Period: June 2013 – October 2015 (29 months)

Target Area: Jakarta (Project Office) and Pilot Project Areas

Target Group: Direct Beneficiary Group: BAPPENAS, BMKG, MOA, and concerned local governments

Date: June 17th, 2013

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local government is increased. 	<ol style="list-style-type: none"> National GHG Inventory Report Development plans produced by local governments 	
<p>Project purpose Capacity to promote climate change adaptation actions in agriculture and other relevant sectors is improved.</p>	<ol style="list-style-type: none"> Information on adaptation actions is regularly exchanged among concerned ministries (BAPPENAS, BMKG, MOA). Document/materials produced in Project are issued in the name of Government of Indonesia. Integration of climate change adaptation into national development planning is achieved. 	<ul style="list-style-type: none"> - Project report - Document publication - Next mid-term development planning document 	<ol style="list-style-type: none"> Projects under JICA's climate change cooperation program are steadily carried out. Projects and programs for climate change mitigation and adaptation in Indonesia are steadily carried out.
<p>Outputs 1. Capacity of analysis on climate variability and change and of its communication is enhanced at BMKG.</p>	<ol style="list-style-type: none"> 1-1. A lessons-learnt report for improving vulnerability assessment is produced. 1-2. Skills for seasonal weather forecasting and its communication are obtained by the training participants and evaluated. 1-3. At least two BMKG staff members are engaged as their regular operational tasks in producing information related to exposure to climate change. 1-4. A study report is produced on climate impacts and agriculture. 	<ul style="list-style-type: none"> - Lessons learnt report - Evaluation report - Staffing of BMKG - Study report 	<p>Collaboration among implementing agencies (BAPPENAS, BMKG, MOA) is sustained.</p>
<p>2. Climate change adaptation by farmer communities is practiced to secure rice production.</p> <p>3. Comprehension of the importance of crop insurance in agricultural protection is improved among stakeholders.</p>	<ol style="list-style-type: none"> 2-1. Monthly/weekly local weather information is utilized by WUA, extension workers and other stakeholders. 2-2. Good practices on water management and rain water harvesting are tested on the ground at the pilot sites. 2-3. Recommendation on the way-forward for good practices on climate resilient agricultural development is developed and agreed. 3-1. Result of the pilot study is presented by the agricultural officials at a national policy discussion 	<ul style="list-style-type: none"> - Report on pilot activities on the ground - Project report - Policy memo - General guideline and technical 	

	meeting. 3-2. A general guideline and technical guidebook on crop insurance is developed. 3-3. A range of agricultural risk mitigation instruments is listed and evaluated.	guidebook	
<p>Activities</p> <p>1.1 Case study of vulnerability assessment on Bali (Completion of the initial SP-2 activities agreed in Sep 2010)</p> <p>1.1.1 Identify BMKG staff members for GCM downscaling, GIS and statistics trainings in Indonesia.</p> <p>1.1.2 Conduct the above trainings in Indonesia.</p> <p>1.1.3 Develop a vulnerability assessment report and vulnerability map on Bali as a case study.</p> <p>1.1.4 Summarize lessons learnt from the case study and understand its application potentials, constraints and uncertainties for vulnerability assessment.</p> <p>1.1.5 Develop technical manuals on vulnerability assessment.</p> <p>1.1.6 Conduct additional training on GCM downscaling in Japan and its follow-up in Indonesia.</p> <p>1.2 Training on seasonal weather forecasting and its communication</p> <p>1.2.1 Identify the training needs to improve skills related to seasonal weather forecasting particularly in the area of agriculture, including communication skills of weather information with farmers.</p> <p>1.2.2 Identify BMKG's trainee candidates.</p> <p>1.2.3 Carry out the training in Japan and its follow-up in Indonesia.</p> <p>1.2.4 Develop a training report.</p> <p>1.3 Practice of vulnerability assessment as BMKG's regular tasks</p> <p>1.3.1 Support the BMKG's gap assessment on its current and required capacity to meet the policy needs of ministries concerned.</p> <p>1.3.2 Draft a gap assessment report.</p> <p>1.3.3 Have consultation meetings with concerned ministries/agencies about the role of BMKG in vulnerability assessment.</p> <p>1.3.4 Develop regular operational tasks in BMKG for vulnerability assessment.</p> <p>1.3.5 Support the operation of regular operational tasks above in BMKG as necessary.</p> <p>1.4 Study on climate impacts and agriculture</p> <p>1.4.1 Identify the needs and participant(s) for study</p> <p>1.4.2 Develop a study proposal on climate impacts and agriculture including climate index.</p> <p>1.4.3 Carry out the above study.</p> <p>1.4.4 Develop a study report including lessons learnt.</p> <p>2.1 Weather and climate information at farmer level</p> <p>2.1.1 Select the pilot sites in the target provinces (East Java, South Sulawesi, West Java, and Central Java) based on the criteria including their readiness to start pilot activities by the beginning of next wet season.</p> <p>2.1.2 Establish AWS/simple climate recorder with WUA in the pilot sites.</p> <p>2.1.3 Provide WUA, extension workers and other stakeholders with training on weather information and data collection.</p> <p>2.1.4 Develop capacity for WUA, extension workers and other stakeholders to understand and act on monthly/weekly local weather forecast for the pilot sites.</p> <p>2.2 Pilot testing on the ground at farmer level for climate change adaptation, including water management and rain water harvesting</p> <p>2.2.1 Conduct a detailed study for pilot testing on the ground for climate change adaptation inducing water management and rain water harvesting in the pilot sites identified in the activity 2.1.1.</p>	<p>Inputs</p> <p>Japanese side</p> <p>1. Experts</p> <ul style="list-style-type: none"> - Long-term expert(s) - Short-term experts - Local experts <p>2. Training in Japan</p> <ul style="list-style-type: none"> - Short-term training <p>3. Provision of Equipment</p> <p>4. Local Expenses of project activities</p> <ul style="list-style-type: none"> - Operational expenses as necessary <p>Indonesian Side</p> <p>1. Counterpart Assignment</p> <ul style="list-style-type: none"> - Project Director (Director, Directorate of Food and Agriculture, BAPPENAS) - Project Manager for Output 1 (Director, PUSPIKU, BMKG) - Project Manager for Output 2 (Director, Directorate of Irrigation Water Management, MOA) - Project Manager for Output 3 (Director, Directorate of Agricultural Finance, MOA) - Staff as project counterparts <p>2. Provision of the Project Office and facilities necessary for the project implementation</p> <p>3. Administrative and operational expenses</p> <ul style="list-style-type: none"> - Cost sharing of climate recorders and water management facilities for pilot sites - Other operational expenses 	<p>Majority of BMKG counterparts trained in the Project are retained in their positions.</p> <p>MOA continues the pilot activities on crop insurance including the one in East Java.</p> <p>Pre-Condition</p> <p>Extension of the Project is agreed and started well in advance of the next rainy season for adequate preparation of pilot activities.</p>	

- 2.2.2 Prepare a proposal based on the above study in consultation with MOA for the implementation of pilot testing on the ground.
- 2.2.3 Based on the proposal, provide WUA, extension workers and other stakeholders with trainings on adaptation practices, including water management and rain water harvesting to test them on the ground.
- 2.2.4 Monitor, evaluate and report the above implementation.
- 2.3 Communication with local government and multi-stakeholders for climate change awareness
- 2.3.1 Plan and conduct a study visit for good practices on climate resilient agricultural development.
- 2.3.2 Compile and document lessons learnt based on the activities 2.1 and 2.2.
- 2.3.3 Organize focus group discussions on the above information at national and local levels.
- 2.3.4 Have a series of consultations with relevant stakeholders including local government, NGOs and media.
- 2.3.5 Prepare a recommendation on the way-forward for good practices on climate resilient agricultural development.
- 3.1 Pilot study in East Java
- 3.1.1 Identify proper pilot site(s) in the target province.
- 3.1.2 Organize focus group discussions with agricultural officials including extension workers at provincial/regency/village level on the practice of crop insurance.
- 3.1.3 Facilitate trainings for farmers to understand climate information and weather forecasts to improve farm risk management.
- 3.1.4 Identify applicant farmers for the pilot crop insurance in East Java conducted by MOA.
- 3.1.5 Support the implementation of the pilot crop insurance in East Java.
- 3.1.6 Prepare a technical review report based on the pilot study.
- 3.2 Study on a range of agricultural risk mitigation instruments, including various insurance models
- 3.2.1 Conduct a study on a range of agriculture risk mitigation instruments.
- 3.2.2 Conduct a desk-top analysis with field surveys on various crop insurance models (i.e. cost-of-production base, yield base, weather-index base) for specific agro-ecosystem and different agricultural commodities.
- 3.2.3 Plan and conduct a study visit for good practices on climate resilient agricultural development.
- 3.2.4 Hold consultation meetings with the insurance industry and relevant stakeholders during the analysis.
- 3.2.5 Develop a general guideline and technical guidebook on crop insurance, incorporating the information produced in project activities.
- 3.3 Dissemination of information on agricultural insurance
- 3.3.1 Organize promotion meetings for the insurance industry on crop insurance.
- 3.3.2 Carry out assessment to examine factors/fundamentals of crop insurance such as coverage rate, policy premium, definition of claim, and structure of insurance tariff rate, incorporating the feedback from activities 3.1 and 3.2.
- 3.3.3 Assist policy discussion meetings at national and local levels on crop insurance to share the information produced in project activities.
- 3.3.4 Provide technical inputs in terms of crop insurance for the development of Ministerial Decree and Technical Guideline in respect to the Farmer Empowerment and Protection Bill.

Abbreviations: BAPPENAS (National Development Planning Agency), BMKG (Meteorological, Climatological and Geophysical Agency), PUSPIKU (Center for Climate Change and Air Quality), MOA (Ministry of Agriculture), WUA (Water User Association), BAU (Business as Usual), AWS (Automatic Weather Station), GCM (Global Climate Model), GIS (Geographic Information System), and GHG (greenhouse gas)

Annex I-1: PDM₀ (Tentative Version)

Project Title : Project of Capacity Development for Climate Change Strategies in Indonesia
(Sub-Project for Capacity Development for Developing National GHG Inventories)

Target Area : Nationwide

Target Group : KLLH, key ministries, local governments and other concerned organizations

Project Period : 2010 –2014 (Four Years)

Version No. 0

Date : 17th September , 2010

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> 1. GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. 2. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> 1. National GHG Inventory Report 2. Development plans produced by local governments 	<p>The Indonesian climate change strategies are not drastically changed.</p>
<p>Project Purpose National greenhouse gas (GHG) inventories come to be prepared in cooperation with the key ministries and local governments concerned of the Indonesian government.</p>	<ol style="list-style-type: none"> 1. A national GHG inventory report is produced for 2008 and 2010. 2. Estimation methods for XX categories are improved (from lower tier to higher tier, e.g. by improving emission factor and/or activity data). 	<ol style="list-style-type: none"> 1. National GHG inventory reports (NIR) in 2008 and 2010 2. NIR in 2008 and 2010 	<p>Projects and programmes for climate change mitigation and adaptation in Indonesia are steadily carried out by development partners and Indonesian government.</p>
<p>Outputs</p> <ol style="list-style-type: none"> 1. National system for preparing national GHG inventories is designed. 2. Capacity to periodically and systematically collect and compile data necessary for national GHG inventories is enhanced. 3. Accuracy and reliability of GHG inventories are improved for each sector (energy; industrial processes; agriculture; land use, land-use change and forestry [LULUCF]; and waste). 	<ol style="list-style-type: none"> 1-1. Procedure for inventory compilation is documented 1-2. Procedure for quality assurance/ quality control (QA/QC) is documented. 1-3. Institutional arrangement for preparation of national GHG inventories is documented. 2-1. National GHG inventory report (NIR) is prepared every XX years. 2-2. Collected and estimated data for national GHG inventories are properly archived and maintained. 3-1. Emissions from and removals by XX categories that have not been considered are calculated with available dataset. 3-2. Emission factors and other parameters are improved for at least XX categories by exploring available dataset. 	<ol style="list-style-type: none"> 1-1. NIRs 1-2. NIRs 1-3. NIRs 2-1. NIRs and data collected for 2008 and 2010 2-2. Data file system for national GHG inventories 3-1. NIRs 3-2. Project reports 	<ol style="list-style-type: none"> 1. Indonesian government secures sufficient budget to prepare national GHG inventories on a periodical basis. 2. Clean development mechanism (CDM) programs at self-sufficient energy villages are promoted.

Activities	Inputs	Majority of the counterpart personnel trained by the Project are retained in their respective positions.
<p>1-1 Conduct workshops/trainings for acquiring general knowledge on preparation of national GHG inventories.</p> <p>1-2 Examine the existing system for preparing national GHG inventories and assess current capacity of the KLH and other relevant organizations involved in the preparation of the GHG inventories.</p> <p>1-3 Consider methods for QA/QC on cross-cutting issues of national GHG inventories.</p> <p>1-4 Examine a procedure for preparation of national GHG inventories.</p> <p>1-5 Examine and improve institutional arrangement for preparing national GHG inventories.</p> <p>1-6 Document the national system for national GHG inventory preparation, including its institutional arrangement.</p> <p>1-7 Conduct workshop for dissemination of the national system.</p> <p>2-1 Conduct workshops/trainings on preparation and improvement for the national GHG inventories.</p> <p>2-2 Collect data necessary for national GHG inventories from relevant ministries, local governments and other concerned organizations.</p> <p>2-3 Develop a database, consisting of file systems, of national GHG inventories.</p> <p>2-4 Compile national GHG inventories with time-series consistency.</p> <p>2-5 Plan and implement QA/QC activities on cross-cutting issues for national GHG inventories.</p> <p>2-6 Prepare national GHG inventory reports (NIR) including procedures of inventory compilation methodologies and QA/QC activities.</p> <p>2-7 Develop a website for disseminating NIR.</p> <p>2-8 Prepare and improve a national GHG inventory improvement plan.</p> <p>3-1 Study methods for preparing activity data and emission factors as well as for implementing data compilation and QA/QC activities for each sector of national GHG inventories.</p> <p>3-2 Conduct key category analysis and identify categories which should be given priority in improving the accuracy and reliability of data.</p> <p>3-3 Investigate measures for reducing uncertainties in order to improve accuracy and reliability of emission/removal estimates for prioritized key categories.</p> <p>3-4 Collect and compile relevant information and identify emission factors and other relevant parameters that better reflect national or regional circumstances in prioritized key categories.</p> <p>3-5 Prepare time-series consistent activity data for each sector.</p> <p>3-6 Conduct workshops/trainings on methodological study on accuracy and reliability of national GHG inventories.</p>	<p>Japanese side</p> <p>1. Personnel</p> <p>Long-term experts Chief Advisor Project Coordinator Sub-Chief Advisor/GHG Inventory</p> <p>Short-term experts Short-term experts will be dispatched in accordance with the needs for the effective implementation of the Project.</p> <p>2. Short-term training of counterpart personnel in Japan and/or third countries</p> <p>3. In-country training</p> <p>4. Provision of equipment</p> <p>5. Local expenses for the project activities</p>	<p>Indonesian side</p> <p>1. Personnel Project Director Project Manager Counterparts</p> <p>2. Provision of the project offices and facilities necessary for the project implementation</p> <p>3. Others Administrative and operational expenses Running costs for electricity, water, etc.</p>
		<p>Pre-condition Understanding and cooperation for preparing the national GHG inventories are obtained among the key ministries and local governments concerned of the Indonesian government.</p>

Annex I-1: Amended PDM (version 1.0)

Project Title : Sub-Project 3: Capacity Development for Developing National GHG Inventories

Project Period : April 2011 – October 2015 (Four years and six months)

Target Area : Nationwide, pilot provinces including North Sumatra and South Sumatra

Target Group : KLIH, key ministries, local governments and other concerned organizations

Date : July 11, 2013

Narrative Summary	Objectively Verifiable Indicators	Means of Verification	Important Assumptions
<p>Overall Goal Mitigation and adaptation actions for climate change are promoted in Indonesia.</p>	<ol style="list-style-type: none"> GHG emission is reduced by 26% by 2020 relative to BAU in Indonesia. The number of development strategies integrating adaptation in local governments is increased. 	<ol style="list-style-type: none"> National GHG inventory report Development plans produced by local governments 	
<p>Project Purpose National greenhouse gas (GHG) inventories are compiled by KLIH on a regular basis in cooperation with key ministries and local governments concerned of the Indonesian government.</p>	<ol style="list-style-type: none"> National GHG Inventory Development is annually prepared by KLIH. The improvement of estimation method (from lower tier to higher tier, e.g. by improving emission factor and/or activity data or by reporting with appropriate notation key) is documented. 	<ul style="list-style-type: none"> Annual Progress Report on National GHG Inventory Development A national GHG inventory improvement plan 	<p>Projects, programmes, domestic laws regarding national GHG inventories and climate change mitigation in Indonesia are steadily carried out by development partners and Indonesian government.</p>
<p>Outputs</p> <ol style="list-style-type: none"> National system for preparing national GHG inventories is designed. Capacity to periodically and systematically manage data necessary for national GHG inventories is enhanced. Understanding on accuracy, transparency and reliability of GHG inventories is enhanced for each sector (energy; industrial processes; agriculture; land use, land-use change and forestry [LULUCF]; and waste) among key ministries and local governments. 	<ol style="list-style-type: none"> 1-1. Procedure for inventory compilation is documented. 1-2. Procedure for quality assurance/ quality control (QA/QC) is documented. 1-3. Institutional arrangement for preparation of national GHG inventories is documented. 2-1. National GHG inventory data is properly archived and maintained. 3-1. Improvement for estimating emissions from and removals by categories is documented. 3-2. Emission factors and other parameters are improved for the waste sector. 	<ul style="list-style-type: none"> QA/QC Plan included in the Annual Progress Report on National GHG Inventory Development Data file for national GHG inventories A national GHG inventory improvement plan Project reports 	<p>Indonesian government secures sufficient budget and human resources to prepare national GHG inventories on a periodical basis.</p>

Activities	Inputs	Indonesian side	Majority of the counterpart personnel trained by the Project are retained in their respective positions.
<p>1-1 Conduct workshops/trainings for acquiring general knowledge on preparation of national GHG inventories.</p> <p>1-2 Examine the existing system for preparing national GHG inventories and assess current capacity of the KLH and other relevant organizations involved in the preparation of the GHG inventories.</p> <p>1-3 Consider methods for QA/QC on cross-cutting issues of national GHG inventories.</p> <p>1-4 Examine a procedure for preparation of national GHG inventories.</p> <p>1-5 Examine institutional arrangement for preparing national GHG inventories.</p> <p>1-6 Document the improvements of national system for national GHG inventory preparation, including its institutional arrangement.</p> <p>1-7 Conduct workshop for dissemination of the national system.</p> <p>1-8 Facilitate discussions on functional improvement and institutional arrangement concerning environmental policy-oriented research activities.</p> <p>1-9 Document and submit the result of the discussion in the activity above.</p> <p>2-1 Support in collecting and compiling data necessary for national GHG inventories from relevant ministries, local governments and other concerned organizations.</p> <p>2-2 Develop data flow including work sheets and a database, consisting of file systems, for national GHG inventories.</p> <p>2-3 Compile national GHG inventories with time-series consistency.</p> <p>2-4 Plan and implement QA/QC activities on cross-cutting issues for national GHG inventories.</p> <p>2-5 Prepare the Annual Progress Report on National GHG Inventory Development, including procedures of inventory compilation methodologies and QA/QC activities.</p> <p>2-6 Develop a website for disseminating inventory reports.</p> <p>2-7 Prepare a national GHG inventory improvement plan.</p> <p>3-1 Conduct technical workshops/trainings on preparation and improvement (i.e. methods, data, assumptions and worksheets) for each sector to improve the accuracy, transparency, and reliability of the national GHG inventories.</p> <p>3-2 Study methods for preparing activity data and emission factors as well as for implementing data compilation and QA/QC activities for each sector of national GHG inventories.</p>	<p>Japanese side</p> <ol style="list-style-type: none"> Personnel Long-term experts Chief Advisor Project Coordinator Sub-Chief Advisor/GHG Inventory Short-term experts Short-term experts will be dispatched in accordance with the needs for the effective implementation of the Project. Local resources -Project Assistants As necessary <ol style="list-style-type: none"> Short-term training of counterpart personnel in Japan and/or third countries In-country training Provision of equipment Local expenses for the project activities including promotional materials of the Project 	<ol style="list-style-type: none"> Personnel Project Director Project Manager Counterparts Provision of the project offices and facilities necessary for the project implementation Others Administrative and operational expenses Running costs for electricity, water, etc. 	<p>Pre-condition</p> <p>Understanding and cooperation for preparing the national GHG inventories are obtained among the key ministries and local governments concerned of the Indonesian government.</p>

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<p>3-3 Conduct key category analysis and identify categories which should be given priority in improving the accuracy and reliability of data.</p> <p>3-4 Identify measures for reducing uncertainties in order to improve accuracy and reliability of emission/removal estimates for prioritized key categories.</p> <p>3-5 Identify emission factors and other relevant parameters that better reflect national or local circumstances in prioritized key categories, specifically for the waste sector.</p> <p>3-6 Organize time-series consistent activity data for each sector based on data provided by line Ministries.</p> <p>3-7 Prepare manuals for developing parameters for the waste sector at the pilot sites to be replicated in other provinces in Indonesia.</p> <p>3-8 Conduct studies at the local level to develop new or improved parameters for the waste sector to be utilized for the national GHG inventory.</p> <p>3-9 Develop a reporting system on parameters for the waste sector from the local to the national level.</p> <p>3-10 Conduct technical workshops/training seminars at the local level to improve the emissions estimation of the waste sector.</p>		
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Annex12: Record of JCC

No	Date	Place	Organization attended
1	October 31, 2011	BAPPENAS	BAPPENAS, BMKG, KLH, Embassy of Japan, JICA
2	February 20, 2013	BAPPENAS	BAPPENAS, BMKG, KLH, South Sumatera Province, North Sumatera Province, Embassy of Japan, JICA
3	March 18, 2014	Hotel Borobudur, Jakarta	BAPPENAS, BMKG, KLH, MOA, PU, DNPI, Embassy of Japan, JICA
4	May 12, 2015	Hotel Borobudur, Jakarta	BAPPENAS, BMKG, KLHK, MOA, MASP, JICA
5	May 28, 2015	Hotel Borobudur, Jakarta	BAPPENAS, BMKG, KLHK, MOA, MASP, Embassy of Japan, JICA

BMKG: Agency for Meteorological, Climatological and Geophysics

DNPI: National Council on Climate Change

KLH: Ministry of Environment

KLHK: Ministry of Environment and Forestry

MASP: Minister of Agrarian and Spatial Planning

MOA: Ministry of Agriculture

PU: Ministry of Public Work