



REPUBLIC OF INDONESIA

# LIST OF MEDIUM-TERM PLANNED EXTERNAL LOANS 2020-2024



MINISTRY OF NATIONAL DEVELOPMENT PLANNING/  
NATIONAL DEVELOPMENT PLANNING AGENCY  
2020





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**Ministry of National Development Planning/  
National Development Planning Agency**



## Foreword

Due to considerable amount of fund needed to achieve national development goals, particularly those of national strategic projects (Major Projects) as stated in National Medium-Term Development (*Rencana Pembangunan Jangka Menengah/ RPJMN*) 2002-2024, the Government of Indonesia utilizes various potential sources of financing, inter alia, external loans, which are applied under the principles of transparency, accountability, effectiveness, efficiency, prudence, non-political ties, and national security prioritization. Furthermore, in order to jostle efficiency as well as to minimize obstacles during project implementation, readiness criteria are also applied under the regulation.

With regard to the matter, The List of Medium-Term Planned External Loans or *Daftar Rencana Pinjaman Luar Negeri Jangka Menengah (DRPLN-JM)/ Blue Book 2020-2024* is formulated by referring to the RPJMN 2020-2024, which constitutes the last stage of the Long-Term National Development Plan (*Rencana Pembangunan Jangka Panjang Nasional/ RPJPN*) 2005-2025. It is still presented using the Program-Based Approach (PBA), and consists of list of programs, which each of them compiling several projects with similar outcomes. DRPLN-JM also considers current national economic situation, including the occurrence of Corona Virus Disease 2019 (COVID-2019) pandemic which surely affects stability of the national economy. DRPLN-JM 2020-2024 was issued on October 8<sup>th</sup>, 2020 under the Decree of the Minister for National Development Planning/ Head of the National Development Planning Agency Number KEP. 80/M.PPN/HK/10/2020, encompassing 73 projects under 25 programs with the total loan value of USD 25.37 billion.

The DRPLN-JM 2020-2024 is expected to be guidance for the line ministries, agencies, local governments, as well as state-owned enterprises in preparing and taking further process just so the proposed projects can be implemented effectively and in timely manner. As for bilateral and multilateral development partners, the document can be used as a reference in preparing steps and substances of their cooperation plans with the Government of Indonesia.

Minister for National Development Planning/  
Head of National Development Planning Agency,



**Suharso Monoarfa**



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# Chapter 1

## INTRODUCTION

### 1. Background

Striving to realize its commitment to achieve targets of the Medium-Term National Development Plan or *Rencana Pembangunan Jangka Menengah (RPJMN)* 2020-2024, the Government of Indonesia needs large amount of fund to finance the national development program. However, the existing funding sources, particularly that of the State Expenditure Budget or *Anggaran Pendapatan dan Belanja Negara (APBN)* are far from sufficient to meet the financial need. Hence, support from other sources of financing is necessary, including that from external loans.

The utilization of external loans is governed by Government Regulation Number 10/2011 on the Procedure for Procurement of External Loans and Grants. Furthermore, in order to enhance its efficiency, planning process which includes application of readiness criteria is applied under Regulation of the Minister for National Development Planning/ Head of the National Development Planning Agency Number 4/2011 concerning Procedure for Planning, Proposing, Assessing, Monitoring, and Evaluation of Projects Financed by External Loans and Grants. According to the regulations, the Ministry of National Development Planning/ the National Development Planning Agency (BAPPENAS) is assigned to coordinate and review the planning process for external loan project proposals submitted by ministries/ agencies/ local governments and/ or state-owned enterprises. Project proposals deemed to be feasible and aligned with RPJMN are then compiled into the List of Medium-Term Planned External Loans or *Daftar Rencana Pinjaman Luar Negeri Jangka Menengah (DRPLN-JM)*, which is a five-year plan document for external loans, widely known as Blue Book.

In October 8<sup>th</sup>, 2020 the DRPLN-JM 2020-2024 was issued under the Decree of the Minister for National Development Planning/ Head of the National Development Planning Agency Number KEP. 80/M.PPN/HK/10/2020, consisting of 73 projects under 25 programs with the total loan value of USD 25.37 billion. This document contains unsigned projects, which are: (i) previously stated in the DRPLN-JM 2015-2019; and (ii) new proposed external loan projects. Projects with similar outcomes are subsequently incorporated under one program (Program Based Approach /PBA).

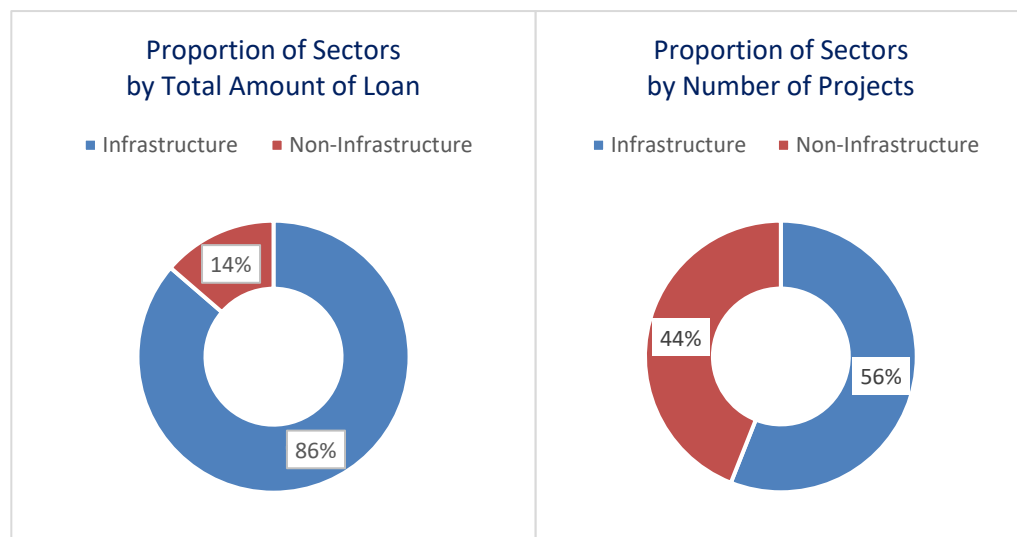
### 2. Program Based Approach (PBA)

The DRPLN-JM 2020-2024 is presented using a Program Based Approach (PBA) format, through which a group of external loan projects with similar outcomes is put under one program. A program may consist of one or more project(s) with one or more executing agency(ies). The PBA is aimed at increasing effectiveness of external loan utilization by focusing more on the achievement of the project outcomes, which is referred from the RPJMN development agenda. Hence, links between the utilization of external loans and the RPJMN's objectives can be easily identified through this approach. In this context, redesigns/ changes/ additions of projects are subsequently presented in the annual planning document called the List of Planned Priority External Loans or *Daftar Prioritas Pinjaman Luar Negeri (DRPPLN)*, widely known as Green Book.

## Chapter 2

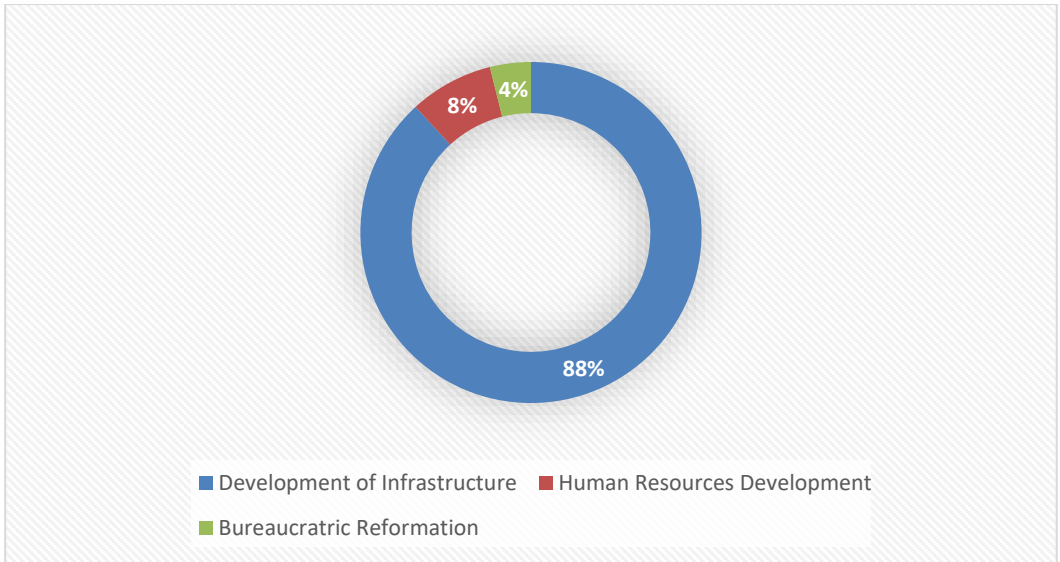
### DRPLN-JM 2020–2024

In accordance with the needs and the dynamics of the national economy, the government issues the List of Medium-Term Planned External Loans or *Daftar Rencana Pinjaman Luar Negeri Jangka Menengah (DRPLN-JM)*/ Blue Book 2002-2024, which consists of 73 the proposed projects under 25 programs with the total loan amount of USD 25.37 billion. Based on sectors, the proposed projects are mostly infrastructures (86%), and the rest are non-infrastructures (14%), which can be seen in the following chart (Diagram 1). Likewise, the number of projects is also dominated by those from infrastructure sectors, with the larger proportion of 12% than that of the non-infrastructures (Diagram 2).



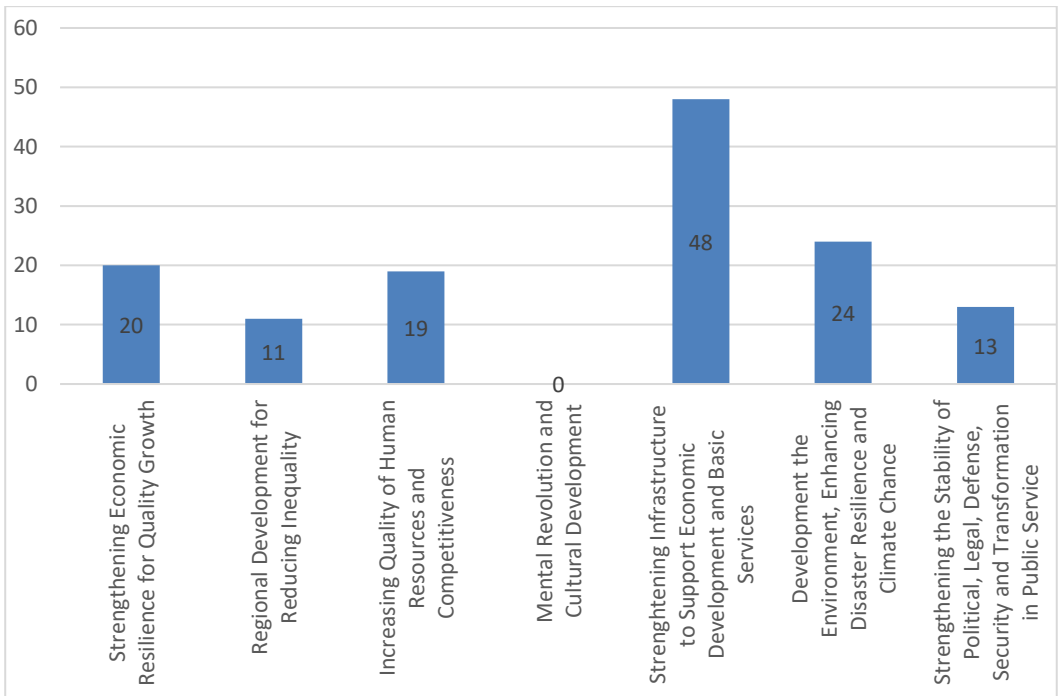
The recapitulation of projects in the DRPLN-JM 2020-2024 by programs are shown in Table 1, while the overall list of programs and projects as stipulated in the Ministerial Decree of National Development Planning/ Head of National Development Planning Agency Number KEP. 80/M.PPN/HK/10/2020 is shown in Table 2.

In this new presidential term, The President of Indonesia already inform his Directives which consist of five (5) points: 1. Development of Infrastructure; 2. Human Resources Development; 3. Endorsing Investment; 4. Bureaucratic Reformation; and State Budget Usage. External loan itself will be focused on developing hard infrastructures that can give additional comparative and competitive advantage, that is on three (3) presidential directives as explained below:



**Figure Share of Portfolio for each Presidential Directives (in terms of total USD planned)**

The Medium-Term Development Plan (RPJMN) 2020-2024, has summarized National Development Goals into 7 Development Agendas. Projects that will be funded by foreign loans is required to be aligned with these Agendas. Therefore, the project proposals submitted by Executing Agencies also include the accordance between project outputs and the National Development Agendas. Number of projects supporting each agenda are shown below, some of the projects can support more than 1 Development Agenda since the Development Agenda designed to be interagency effort to achieve it.



**Figure Share of Portfolio for each Development Agenda (in terms of total number of Projects)**

**Table 1. Recapitulation of DRPLN-JM 2020-2024 by Program  
(in Thousand USD)**

Program		Loan
<b>Infrastructure</b>		<b>21,904,222</b>
1	Multipurpose Storage for Water, Food, Flood, and Energy Program	3,040,978
2	Disaster Resilience Infrastructure Program	2,162,000
3	Toll Road Development Program	4,777,080
4	Road and Bridge Development/Improvement Program	1,100,000
5	Slum Alleviation Program	240,000
6	Water Supply System Development Program	95,500
7	Sanitation and Waste Development Program	748,000
8	Urban Mass Transportation Development Program	5,184,864
9	Transportation Safety and Security Improvement Program	198,073
10	Marine Connectivity Infrastructure Development Program	1,178,081
11	Information and Communication Technology Infrastructure Development Program	995,819
12	Enhancement of Search and Rescue Facility Program	69,564
13	Electricity Infrastructure Development Program	1,964,263
14	Green Finance Facility Program	150,000
<b>Non-Infrastructure</b>		<b>3,465,684</b>
15	Fisheries and Marine Management Program	731,888
16	Health Services Improvement Program	914,337
17	Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program	616,293
18	The Higher Education Quality Strengthening Program	118,919
19	Food Transformation and Agricultural Value-Added Program	225,000
20	Village Development Program	76,345
21	State Apparatus Enhancement Program	100,000
22	Vocational Training Enhancement Program	40,400
23	Geospatial Information Management Program	351,885
24	Security and Safety Program in Indonesian Waters and Indonesian Jurisdictions	180,000
25	Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program	110,617
<b>GRAND TOTAL</b>		<b>25,369,906</b>



**Table 2. List of Programs and Projects in DRPLN-JM 2020-2024**  
(in Thousand USD)

No	Program/ Project	Executing Agency	Loan
<b>1</b>	<b>Multipurpose Storage for Water, Food, Flood, and Energy Program</b>		<b>3,040,978</b>
	<i>a. Additional Loan Karian Dam Project</i>	<b>Ministry of Public Works and Housing</b>	50,000
	<i>b. Water Resources Development in the Eastern Semarang through Upgrade of the Kedung Ombo Dam, Central Java Province, Indonesia</i>		100,000
	<i>c. The Project for Upgrading Dams under Operation in Brantas River Basin</i>		313,200
	<i>d. Jenelata Dam Construction Project</i>		300,000
	<i>e. Riam Kiwa Dam Construction Project</i>		250,000
	<i>f. Lambakan Dam Construction Project</i>		550,000
	<i>g. Pelosika Dam Construction Project</i>		510,000
	<i>h. Karian Dam-Serpong Water Conveyance System</i>		402,778
	<i>i. River Basin Improvement Program: Modernization of National Water Resources Information System</i>		50,000
	<i>j. Asahan Irrigation Development in North Sumatera</i>		515,000
<b>2</b>	<b>Disaster Resilience Infrastructure Program</b>		
	<i>a. Comprehensive Disaster Reduction and Management Improvement of Jeneberang River Basin</i>	<b>Ministry of Public Works and Housing</b>	288,000
	<i>b. National Urban Flood Resilience Program (NUFReP)</i>		400,000
	<i>c. Flood Management and Coastal Protection in North Java</i>		500,000
	<i>d. Integrated Urban Flood Management Project in JABODETABEK</i>		800,000
	<i>e. Urgent Disaster Reduction of Mt. Semeru, Mt. Kelud, Mt. Agung, and Other Erupted Volcanoes in Indonesia</i>		174,000
<b>3</b>	<b>Toll Road Development Program</b>		<b>4,777,080</b>
	<i>a. Toll Road Development in Sumatera Islands</i>	<b>Ministry of Public Works and Housing</b>	3,000,000
	<i>b. Development of New Tunnels Alignment in Payakumbuh-Pangkalan Toll Road</i>		427,000

No	Program/ Project	Executing Agency	Loan
	<i>c. Development of Serang-Panimbang Toll Road (Cileles-Panimbang Section)</i>		259,000
	<i>d. Development of Semarang-Demak Toll Road Project Integrated with Sea Dike</i>		555,050
	<i>e. The Development of Kuala Tanjung-Tebing Tinggi-Parapat Toll Road</i>		536,030
<b>4</b>	<b>Road and Bridge Development/ Improvement Program</b>		<b>1,100,000</b>
	<i>a. Development of Trans South – South Java Road Project Phase II</i>	<b>Ministry of Public Works and Housing</b>	450,000
	<i>b. Long Span Bridge Development for Selected Area</i>		650,000
<b>5</b>	<b>Slum Alleviation Program</b>		<b>240,000</b>
	<i>a. Livable Settlement Investment Project (LSIP)</i>	<b>Ministry of Public Works and Housing</b>	150,000
	<i>b. Regency Settlement Infrastructure Development (RSID)</i>		90,000
<b>6</b>	<b>Water Supply System Development Program</b>		<b>95,500</b>
	<i>a. The Development of Regional Water Supply System in Wosusokas</i>	<b>Ministry of Public Works and Housing</b>	95,500
<b>7</b>	<b>Sanitation and Waste Development Program</b>		<b>748,000</b>
	<i>a. Solid Waste Management for Sustainable Urban Development</i>	<b>Ministry of Public Works and Housing</b>	150,000
	<i>b. Wastewater Development System for City Wide Inclusive Sanitation</i>		598,000
<b>8</b>	<b>Urban Mass Transportation Development Program</b>		<b>5,184,864</b>
	<i>a. Implementation Project of Public Transportation System</i>	<b>Ministry of Transportation</b>	500,000
	<i>b. Construction of Jakarta Mass Rapid Transit East- West Line Project Phase I Stage I</i>		2,438,666
	<i>c. Engineering Services of Jakarta Mass Rapid Transit East - West Line Project Phase I Stage II</i>		106,115
	<i>d. Construction of Jakarta Mass Rapid Transit Project North-South Phase 2</i>		1,890,083
	<i>e. Surabaya Regional Railway Line (Phase I)</i>		250,000

No	Program/ Project	Executing Agency	Loan
9	<b>Transportation Safety and Security Improvement Program</b>		<b>198,073</b>
	<i>a. Procurement of Third-Class Navigation Vessel</i>	<b>Ministry of Transportation</b>	130,818
	<i>b. Development and Improvement of Indonesia Aids to Navigation Project (AToN)</i>		67,255
10	<b>Marine Connectivity Infrastructure Development Program</b>		<b>1,178,081</b>
	<i>a. Patimban Port Development Project Phase 1-2</i>	<b>Ministry of Transportation</b>	991,067
	<i>b. Eastern Indonesia Port-Led Development</i>		187,014
11	<b>Information and Communication Technology Infrastructure Development Program</b>		<b>995,819</b>
	<i>a. Digitalization of Broadcasting System</i>	<b>Ministry of Communications and Information Technology</b>	373,154
	<i>b. Strengthening of e-Government Infrastructure</i>		322,556
	<i>c. Integrated Intelligence System of Attorney General Indonesia</i>	<b>Attorney General of Indonesia</b>	300,000
12	<b>Fisheries and Marine Management Program</b>		<b>731,888</b>
	<i>a. Integrated of Fishing Ports and International Fish Markets</i>	<b>Ministry of Maritime Affairs and Fisheries</b>	299,038
	<i>b. Ocean for Prosperity-Infrastructures in Coral Reef Areas</i>		75,000
	<i>c. Maritime and Fisheries Integrated Surveillance System</i>		159,500
	<i>d. Infrastructure Improvement for Shrimp Aquaculture</i>		93,000
	<i>e. Outer Ring Fishing Ports Development (Eco Fishing Port)</i>		105,350
13	<b>Health Services Improvement Program</b>		<b>914,337</b>
	<i>a. Strengthening of National Referral Hospital and Vertical Technical Unit</i>	<b>Ministry of Health</b>	261,718
	<i>b. Improvement of Facilities and Infrastructure for Teaching and Learning Activities in Health Sector Project</i>		109,400
	<i>c. Strengthening of National Referral Hospital on Oncology Center</i>		205,144

No	Program/ Project	Executing Agency	Loan
	<i>d. Upgrading Medical Equipment and Support for Army Hospitals</i>	<b>Ministry of Defence</b>	130,354
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Army Hospital Dustira</li> </ul>		10,000
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Army Hospital Soedjono</li> </ul>		15,000
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Army Hospital Pelamonia</li> </ul>		10,000
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Army Hospital Udayana</li> </ul>		10,000
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments for Army Hospital dr. AK Gani</li> </ul>		13,738
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Army Hospital Salak</li> </ul>		10,388
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments for Army Hospital dr. R Hardjanto</li> </ul>		11,002
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments for Army Hospital Kartika Husada</li> </ul>		9,158
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments for Army Hospital Prof. Dr. J. A. Latumeten Hospital</li> </ul>		7,628
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments for Army Hospital Marthen Indey</li> </ul>		9,499
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments for Army Hospital Moh Ridwan Meuraksa</li> </ul>		11,894
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments for Army Hospital Iskandar Muda</li> </ul>		12,057
	<i>e. Upgrading Medical Equipment and Support for Navy Hospitals</i>		67,722
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Naval Hospital dr. Ramelan</li> </ul>	15,000	
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Naval Hospital dr. Oetojo</li> </ul>	15,000	

No	Program/ Project	Executing Agency	Loan
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Naval Hospital dr. Midiyato Suratani and Naval Hospital dr. Komang Belawan</li> </ul>		13,503
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Naval Hospital dr. Ilyas and Naval Hospital dr. R Ghandi AT</li> </ul>		8,785
	<ul style="list-style-type: none"> <li>Upgrading Medical Equipments and Supporting Facilities for Naval Hospital dr. Mintohardjo</li> </ul>		15,434
	<i>f. Upgrading Medical Equipment and Support for Air Force Hospitals</i>		139,999
	<ul style="list-style-type: none"> <li>Improvement of Capabilities and Capacities of Air Force Hospital dr. S. Hardjolukito</li> </ul>		11,561
	<ul style="list-style-type: none"> <li>Improvement of Capabilities and Capacities of Air Force Hospital Muhammad Sutomo</li> </ul>		13,438
	<ul style="list-style-type: none"> <li>Improvement of Capabilities and Capacities Medical Services at Air Force Hospital dr. Kresno Manuhua</li> </ul>		20,000
	<ul style="list-style-type: none"> <li>Improvement of Capabilities and Capacities Medical Services at Air Force Hospital dr. Hoediyono</li> </ul>		20,000
	<ul style="list-style-type: none"> <li>Improvement of Capabilities and Capacities Medical Services at Air Force Hospital El Tari</li> </ul>		20,000
	<ul style="list-style-type: none"> <li>Establishment of Infectious Hospital for Air Force</li> </ul>		55,000
<b>14</b>	<b>Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program</b>		<b>616,293</b>
	<i>a. Promoting Research and Innovation through Modern and Efficient Science and Techno Park (PRIME SteP): Development of Science and Technology Parks</i>	<b>Ministry of Research and Technology/ National Research and Innovation Agency</b>	198,299
	<i>b. Higher Education and Research Facility Development: Research and Innovation Capacity Development</i>		172,211

No	Program/ Project	Executing Agency	Loan
	<i>c. Procurement of Multi Purposes Research Vessel</i>	<b>Indonesian Institute of Sciences</b>	107,851
	<i>d. Acquisition of Indonesian Biodiversity as Fundamental Sources for Research and Innovation</i>		137,932
<b>15</b>	<b>The Higher Education Quality Strengthening Program</b>		<b>118,919</b>
	<i>a. The Quality Improvement Academic Hospital of Brawijaya University</i>	<b>Ministry of Education and Culture</b>	39,444
	<i>b. Higher Education for Technology and Innovation Project</i>		79,475
<b>16</b>	<b>Food Transformation and Agricultural Value-Added Program</b>		<b>225,000</b>
	<i>a. Integrated Corporation of Agricultural Research, Development and Empowerment (I-CARE)</i>	<b>Ministry of Agriculture</b>	100,000
	<i>b. Dry Land Agriculture Development Project</i>		125,000
<b>17</b>	<b>Village Development Program</b>		<b>76,345</b>
	<i>a. Enhancing BUM Desa Capacity and Infrastructure for The Digitalization of Villages Economic</i>	<b>Ministry of Villages, Disadvantaged Regions, and Transmigration</b>	76,345
<b>18</b>	<b>State Apparatus Enhancement Program</b>		<b>100,000</b>
	<i>a. Strengthening Management of Apparatus Talents (SMART)</i>	<b>Ministry of National Development Planning/ National Development Planning Agency</b>	100,000
<b>19</b>	<b>Vocational Training Enhancement Program</b>		<b>40,400</b>
	<i>a. Development of Vocational Training Centers</i>	<b>Ministry of Manpower</b>	40,400
<b>20</b>	<b>Geospatial Information Management Program</b>		<b>351,885</b>
	<i>a. Program to Accelerate the Provision of Large-Scale Base Maps (1: 5.000) for Sustainable National Development</i>	<b>Geospatial Information Agency</b>	351,885

No	Program/ Project	Executing Agency	Loan
21	<b>Security and Safety Program in Indonesian Waters and Indonesian Jurisdictions</b>		<b>180,000</b>
	<i>a. National Maritime Security System</i>	<b>Indonesia Coast Guard</b>	<i>180,000</i>
22	<b>Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program)</b>		<b>110,617</b>
	<i>a. Strengthening Flight Information Region and Development of Aviation Meteorology Services in Eastern Indonesia</i>	<b>Meteorological, Climatological, and Geophysical Agency</b>	<i>26,617</i>
	<i>b. Enhancing National Climate and Air Quality Services</i>		<i>50,000</i>
	<i>c. Enhancement of Indonesian Weather Radar Network for Extreme Weather Warning Capabilities</i>		<i>34,000</i>
23	<b>Enhancement of Search and Rescue Facility Program</b>		<b>69,564</b>
	<i>a. Procurement of Search and Rescue Helicopter Medium Class</i>	<b>National Search and Rescue Agency</b>	<i>69,564</i>
24	<b>Electricity Infrastructure Development Program</b>		<b>1,964,263</b>
	<i>a. Upper Cisokan Pumped Storage Power Plant (4x260 MW)</i>	<b>State Electricity Company</b>	<i>650,000</i>
	<i>b. Additional Loan PLTA Asahan 3(2 x 87 MW)</i>		<i>152,318</i>
	<i>c. Matenggeng Pumped Storage Hydro Electrical Power Plant (943 MW)</i>		<i>826,900</i>
	<i>d. Additional Loan PLTA Peusangan 1&amp;2 Hydroelectric Power (87 MW)</i>		<i>131,045</i>
	<i>e. Hululais Geothermal Power Plant 1&amp;2 (2x55 MW)</i>		<i>204,000</i>
25	<b>Green Finance Facility Program</b>		<b>150,000</b>
	<i>a. SDG Indonesia One – Green Finance Facility (SIO-GFF)</i>	<b>PT Sarana Multi Infrastruktur</b>	<i>150,000</i>
	<b>TOTAL</b>		<b>25,369,906</b>

## **Chapter 3**

# **PROJECT DIGESTS**

This chapter presents project digest of DRPLN-JM 2020-2024. The project digest is a summary of information regarding the project which covers executing agency, implementing agency, background, scope of work, output, outcome, duration of implementation, location, amount of loan, and counterpart funding. In this chapter listed 73 project digests which are categorized in 25 programs.



# **Multipurpose Storage for Water, Food, Flood, and Energy Program**

# **Ministry of Public Works and Housing**

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<b>1. Project Title</b>	<b>: Additional Loan Karian Dam Project</b>
<b>2. Program Title</b>	<b>: Multipurpose Storage for Water, Food, Flood, and Energy Program</b>
<b>3. Executing Agency</b>	<b>: Ministry of Public Works and Housing</b>
<b>4. Implementing Agency</b>	<b>: Directorate General for Water Resources, Ministry of Public Works and Housing</b>
<b>5. Duration</b>	<b>: 65 months</b>
<b>6. Location</b>	<b>: Lebak Regency, Banten Province</b>

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## 7. Objectives

Karian dam is expected to reduce flood disasters which falls into central government jurisdiction through Cidanau - Ciujung - Cidurian Balai Besar Wilayah Sungai (BBWS). Floods are inundated residential areas, industrial areas, rice fields and the Jakarta - Merak Toll route. Flooding of these areas causes complex problems and also causing casualty, loss of public property, damage to public infrastructure and disrupting the functioning of infrastructure utilities and public facilities, also impact on multi aspects of life such as economic, social, education and health.

## 8. Scope of Works

- a. Finishing of Ciuyah tunnel for 1,329 m long.
- b. Enforcement of weak zone in Ciuyah Tunnel
- c. Additional work from outlet portal to booster pump
- d. Addition gate in the inundation area of Karian dam
- e. Additional work (landscape) outside Karian dam site
- f. Additional work of electrical and mechanical for landscape area

## 9. Outputs

- a. Ciuyah Tunnel for 1,329 m long.
- b. Dredger and Trashboom Debris

## 10. Outcomes

- a. Reduced social and economical loss from extreme flood events
- b. Development of sustainable water supply and management system

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support the development of economic and basic services.

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	50,000,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	50,000,000	Subtotal	: US\$	0
<b>TOTAL</b>	<b>: US\$</b>	<b>50,000,000</b>			

- 
1. **Project Title** : **Water Resources Development in the Eastern Semarang through Upgrade of the Kedung Ombo Dam, Central Java Province, Indonesia**
  2. **Program Title** : Multipurpose Storage for Water, Food, Flood, and Energy Program
  3. **Executing Agency** : Ministry of Public Works and Housing
  4. **Implementing Agency** : Directorate General of Water Resources, Ministry of Public Works and Housing
  5. **Duration** : 96 months
  6. **Location** : Central Java Province
- 

## 7. Objectives

Water resources development is expected to establish and expand the sustainable socio-economic in Semarang and Demak area through additional water sources for existing Klambu-Kudu Canal and Jatibarang Dam, mitigation on land subsidence in the Eastern Semarang, also control of river water and dam operation.

## 8. Scope of Works

- a. Study and design of the project
  - i. Detailed design of the priority project
  - ii. Project implementation
  - iii. Inter basin transfer system
- b. Civil Works
  - i. Tunneling works for inter basin water transfer
  - ii. New intake construction
  - iii. Installation of control gate on spillway
  - iv. Monitoring and water management system (dam control system)
  - v. Water conveyance canal to Semarang
- c. Effective use of river water
  - i. Rehabilitation of Irrigation System
  - ii. Empowerment of Water Users Association

## 9. Outputs

- a. Inter Basin Transfer System
  - i. Tunnel for inter basin water transfer (10km, 5m<sup>3</sup>/s)
  - ii. Intake facilities at Tuntang River
- b. Kedung Ombo Dam Upgrade
  - i. Additional intake for municipal water supply (2 m<sup>3</sup>/s)
  - ii. Flood gate at spillway overflow section for changing NWL (1 m)
  - iii. Flood gate at emergency spillway for flood control (if necessary)
- c. Operation and Maintenance
  - i. Rehabilitation of dam monitoring system
  - ii. Installation of dam operation system
  - iii. Preparation of dam operation and maintenance manual

- iv. Raw water conveyance system to Semarang

## 10. Outcomes

- a. Mitigation on drought damages in the Eastern Semarang,
- b. Mitigation on land subsidence by means of restriction of groundwater usage,
- c. Increased agricultural products, and
- d. Enhancement of living standard in the urban and rural area of the Eastern Semarang

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic services

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 100,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 4,000,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 100,000,000	<hr/> Subtotal : US\$ 4,000,000
<b>TOTAL : US\$ 104,000,000</b>	

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<b>1. Project Title</b>	<b>: The Project for Upgrading Dams under Operation in Brantas River Basin</b>
<b>2. Program Title</b>	: Multipurpose Storage for Water, Food, Flood, and Energy Program
<b>3. Executing Agency</b>	: Directorate General of Water Resources, Ministry of Public Works and Housing
<b>4. Implementing Agency</b>	: 1) Directorate of Dam and Lake 2) Directorate of Operation & Maintenance 3) Balai Besar Wilayah Sungai Brantas (BBWS Brantas)
<b>5. Duration</b>	: 60 months
<b>6. Location</b>	: Blitar, Sukowilangun, Kalipare, Malang, East Java Brantas River Basin

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## 7. Objectives

Upgrading dams in the Brantas River Basin is expected to achieve sustainable water usage in the river basin through comprehensive sediment control construction and dam management.

## 8. Scope of Works

- a. Detailed design for countermeasures against sedimentation in dams
- b. Preparation of tender documents
- c. Construction works of countermeasures
- d. Technical assistance for technological enhancement of dam management

## 9. Outputs

- a. Sediment Flushing Tunnel (1-2km) / Sediment bypass (15km)
- b. Functional enhancement equipment of Sutami dam
- c. Enhancement of dam management
- d. Comprehensive Sediment management in Brantas River Basin
- e. Project supervision

## 10. Outcomes

- a. Availability of sediment flushing facility of Sutami Dam
- b. Availability of functional enhancement equipment of Sutami dam
- c. Availability of technological enhancement of dam management
- d. Supervision documentation

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Developing environment, enhancing disaster resilience and climate change

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	313,200,000	- Central Government	: US\$	15,300,000
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	313,200,000	Subtotal	: US\$	15,300,000
<b>TOTAL : US\$ 328,500,000</b>					



- 
- 1. **Project Title** : **Jenelata Dam Construction Project**
  - 2. **Program Title** : Multipurpose Storage for Water, Food, Flood, and Energy Program
  - 3. **Executing Agency** : Ministry of Public Works and Housing
  - 4. **Implementing Agency** : Directorate General of Water Resources, Ministry of Public Works and Housing
  - 5. **Duration** : 60 months
  - 6. **Location** : Gowa, South Sulawesi Province
- 

**7. Objectives**

The Jenelata dam is expected to provide great benefits, especially to meet the supply of raw water, provide electricity through hydropower plants, support agricultural production through water supply for irrigation, water conservation, and tourism.

**8. Scope of Works**

- a. Construct a multipurpose dam along with its appurtenant and complimentary structures
- b. Rehabilitate the existing access road
- c. Construct hydropower facilities at the dam to meet the community’s needs for electricity
- d. Improve and enhance the irrigation network

**9. Outputs**

- a. Multipurpose dam with a total storage of 285 Million m<sup>3</sup> together with its appurtenant and complimentary structures
- b. Hydropower facilities in the dam to meet the community’s needs for electricity

**10. Outcomes**

- a. Fulfilling the community's raw water needs with a water discharge of 6.05 m<sup>3</sup>/s
- b. Providing ± 7 MW electricity supply through hydropower;
- c. Supporting local agriculture production by providing irrigation water for 26,773 Ha of the cropping area
- d. Flood control in the Jenelata river basin

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Strengthening infrastructure to support the development of economic and basic services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li style="padding-left: 20px;">- Loan : US\$ 300,000,000</li> <li style="padding-left: 20px;">- Grant : US\$ 0</li> <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 300,000,000</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li style="padding-left: 20px;">- Central Government : US\$ 52,940,000</li> <li style="padding-left: 20px;">- Regional Government : US\$ 0</li> <li style="padding-left: 20px;">- State-Owned Enterprise : US\$ 0</li> <li style="padding-left: 20px;">- Others : US\$ 0</li> <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 52,940,000</li> </ul>
<b>TOTAL : US\$ 352,940,000</b>	

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1. <b>Project Title</b>	: <b>Riam Kiwa Dam Construction Project</b>
2. <b>Program Title</b>	: Multipurpose Storage for Water, Food, Flood, and Energy Program
3. <b>Executing Agency</b>	: Ministry of Public Works and Housing
4. <b>Implementing Agency</b>	: Directorate General of Water Resources, Ministry of Public Works and Housing
5. <b>Duration</b>	: 60 months
6. <b>Location</b>	: Banjar Regency, South Kalimantan Province

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## 7. Objectives

- a. Performing water resources conservation
- b. Environmental preservation
- c. Flood control in Banjar, Kalimantan Selatan
- d. Build a hydroelectric power plant to supply electrical energy to the community
- e. Conserving the forest
- f. Improvement of irrigation installation
- g. Provide water for conservation
- h. Raw water supply

## 8. Scope of Works

- a. Conducting conservation, environmental preservation and flood control
- b. Constructing the Riam Kiwa Multipurpose Dam with supporting facilities
- c. Build a hydroelectric power plant to supply electrical energy to the community
- d. Improvement of irrigation installation

## 9. Outputs

- a. Multipurpose dam or storage with a capacity of 88.83 million m<sup>3</sup> with supporting facilities
- b. Hydropower building to supply electrical energy for the community

## 10. Outcomes

- a. Fulfillment of raw water 4.5 m<sup>3</sup>/second
- b. Fullfilment of 1800 hectares of irrigation water
- c. Supplying electrical energy through ± 6 MW hydropower plant
- d. Flood control

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support the development of economic and basic services.

## 12. Project Cost

<ul style="list-style-type: none"><li>• Foreign Funding</li></ul>	<ul style="list-style-type: none"><li>• Counterpart Funding</li></ul>
<ul style="list-style-type: none"><li>- Loan : US\$ 250,000,000</li></ul>	<ul style="list-style-type: none"><li>- Central Government : US\$ 44,120,000</li></ul>
<ul style="list-style-type: none"><li>- Grant : US\$ 0</li></ul>	<ul style="list-style-type: none"><li>- Regional Government : US\$ 0</li></ul>
<hr/>	<ul style="list-style-type: none"><li>- State-Owned Enterprise : US\$ 0</li></ul>
<ul style="list-style-type: none"><li>Subtotal : US\$ 250,000,000</li></ul>	<ul style="list-style-type: none"><li>- Others : US\$ 0</li></ul>
<hr/>	<hr/>
<b>TOTAL : US\$ 294,120,000</b>	Subtotal : US\$ 44,120,000

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<b>1. Project Title</b>	<b>: Lambakan Dam Construction Project</b>
<b>2. Program Title</b>	: Multipurpose Storage for Water, Food, Flood, and Energy Program
<b>3. Executing Agency</b>	: Ministry of Public Works and Housing
<b>4. Implementing Agency</b>	: Directorate General of Water Resources, Ministry of Public Works and Housing
<b>5. Duration</b>	: 60 months
<b>6. Location</b>	: Penajem Paser Regency, East Kalimantan Province

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## 7. Objectives

- a. Building a hydroelectric power plant to supply electrical energy to the community
- b. Construct embankment to withstand or control flooding
- c. Irrigation installation improvement
- d. Provide water for conservation
- e. Controlling seawater intrusion
- f. Raw water supply
- g. Increase income from the tourism sector through the development of tourism area destination

## 8. Scope of Works

- a. Constructing the Lambakan Multipurpose Dam with supporting facilities
- b. Building the embankment to hold the flood in Telake river basin
- c. Build a hydroelectric power plants to supply electrical energy to the community
- d. Improvement of irrigation installations
- e. Development of tourism area destinations
- f. Provide water for conservation

## 9. Outputs

- a. Multipurpose dam or storage with a capacity of 850 million m<sup>3</sup> with supporting facilities
- b. Hydropower building to supply electrical energy for the community

## 10. Outcomes

- a. Fulfillment of raw water 5 m<sup>3</sup>/second
- b. Fulfilment of 21,000 hectares of irrigation water
- c. Supplying electrical energy through 18.87 MW hydropower plant
- d. Flood control of 40% in Telake river basin

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support the development of economic and basic services.
- b. Lambakan Dam Construction Project included in PP to increase quantity/ water security.

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	550,000,000	- Central Government	: US\$	97,600,000
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	550,000,000	Subtotal	: US\$	97,600,000
<b>TOTAL</b>	<b>: US\$</b>	<b>647,600,000</b>			

<b>1. Project Title</b>	: <b>Pelosika Dam Construction Project</b>
<b>2. Program Title</b>	: Multipurpose Storage for Water, Food, Flood, and Energy Program
<b>3. Executing Agency</b>	: Ministry of Public Works and Housing
<b>4. Implementing Agency</b>	: Directorate General of Water Resources, Ministry of Public Works and Housing
<b>5. Duration</b>	: 60 months
<b>6. Location</b>	: Konawe Regency, South East Sulawesi Province

## 7. Objectives

- Building a hydroelectric power plant to supply electrical energy to the community
- Construct embankment to withstand or control flooding
- Irrigation installation improvement
- Increase income from tourism sector through the development of tourism area destination

## 8. Scope of Works

- Constructing the Pelosika Multipurpose Dam with supporting facilities
- Build a hydroelectric power plants to supply electrical energy to the community
- Improvement of irrigation installations

## 9. Outputs

- Multipurpose dam or storage with a capacity of 831.80 million m<sup>3</sup> with supporting facilities
- Hydropower building to supply electrical energy for the community

## 10. Outcomes

- Fulfillment of raw water 0.75 m<sup>3</sup>/second
- Supporting the increase in agricultural production by providing irrigation water for an area of 22,764 hectares
- Supplying electrical energy through 2 x 10.5 MW hydropower plant
- Flood control of 549.42 m<sup>3</sup>/s

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support the development of economic and basic services.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 510,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 90,000,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 510,000,000	Subtotal : US\$ 90,000,000
<b>TOTAL : US\$ 600,000,000</b>	

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<b>1. Project Title</b>	: <b>Karian Dam-Serpong Water Conveyance System</b>
<b>2. Program Title</b>	: Multipurpose Storage for Water, Food, Flood, and Energy Program
<b>3. Executing Agency</b>	: Ministry of Public Works and Housing
<b>4. Implementing Agency</b>	: 1) Directorate General of Water Resources, Ministry of Public Works and Housing 2) BBWS Cidanau-Ciujung-Cidurian
<b>5. Duration</b>	: 48 months
<b>6. Location</b>	: Banten and DKI Jakarta Province

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## 7. Objectives

The Ministry of Public Works and Public Housing through BBWS Cidanau-Ciujung-Cidurian is currently carrying out the construction of the Karian Dam in Lebak Regency to meet raw water needs in Lebak Regency, Serang Regency, Tangerang Regency, South Tangerang City, and DKI Jakarta. The raw water allocation for the Karian Dam is 14.6 m<sup>3</sup>/second, divided for RKI (Office and Industrial Households) 13.9 m<sup>3</sup>/second and for irrigation of 0.7 m<sup>3</sup>/second. The RKI allocation for Banten Province is 9.7 m<sup>3</sup>/second and for DKI Jakarta Province is 4.2 m<sup>3</sup>/second.

The Karian Dam-Serpong Water Conveyance System (KSCS) project is proposed. To provide additional raw water supply in Banten Province and DKI Jakarta of 12.4 m<sup>3</sup>/sec through the Karian Dam, a 53.1 km long raw water pipe was built from WTP Karian to Serpong, WTP Solear, WTP Parung Panjang, WTP Maja, WTP Maja, and Rangkas Bitung.

## 8. Scope of Works

- a. Study and project design
  - i. Detail design and procurement support;
  - ii. Supervision of construction.
- b. Civil works
  - a. General items;
  - b. Ciuyah pumping station;
  - c. Main conveyance pipeline;
  - d. Branch conveyance pipeline.

## 9. Outputs

- a. Transmission of raw water
- b. Services area of raw water

## 10. Outcomes

- a. Fulfillment of raw water for the Banten, West Java and Jakarta regions, especially Tangerang Regency, South Tangerang City, Tangerang City, Lebak Regency, Bogor Regency, and West Java
- b. Reduce of groundwater use

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic services

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 402,778,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 98,097,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 402,778,000	Subtotal : US\$ 98,097,000
<b>TOTAL : US\$ 500,875,000</b>	



- 1. **Project Title** : **River Basin Improvement Program: Modernization of National Water Resources Information System**
  - 2. **Program Title** : Multipurpose Storage for Water, Food, Flood, and Energy Program
  - 3. **Executing Agency** : Ministry of Public Works and Housing
  - 4. **Implementing Agency** : Directorate General of Water Resources, Ministry of Public Works and Housing
  - 5. **Duration** : 48 months
  - 6. **Location** : Nation-wide, scattered in river basin territories/provinces
- 

### 7. Objectives

River basin improvement programs is expected to modernize and improve the water resources information system in Indonesia through formulating a road map, implement a plan of water resources information system management, provide modern H3 observation post monitoring network system, improve analytical tools for water resources assessment, and hydrological modeling, and capacity building. This information system aims to support planning development, monitoring, and evaluation.

### 8. Scope of Works

- a. A modern and nationally integrated water resources information system;
- b. Road map and implementation plan of water resources information system management;
- c. Monitoring system of modernized observation posts network H3, including data system and ICT;
- d. Government regulation regarding the development of water resources information systems;
- e. Skilled officers and experts in the management of water resources information systems;
- f. Pilot project for managing the H3 observation posts network by the private sector with Performance Base Contract (PBC);
- g. Availability of analytical tool for water assessment and hydrological modeling, flooding and drought.

### 9. Outputs

- a. Number of Water Resource Information System Applications at 'Balai' and Central Government;
- b. Number of Road Map Documents;
- c. Number of River Basin Areas (WS) which have been modernized H3 monitoring post monitoring systems;
- d. Number of government regulations that have been made;
- e. Number of skilled and expert personnel in managing natural resources information;
- f. Number of pilot projects to manage H3 monitoring posts network by private sector under Performance Base Contract (PBC);
- g. Number of analytical tools for water resources assessment and hydrological modeling, flooding and drought.

## 10. Outcomes

- a. The number of water resource information systems that have been operating;
- b. The number of B/BWS that have been improved in the management of their natural resource information systems;
- c. Number of monitoring systems for H3 observation posts that can be monitored online and real-time;
- d. The number of B/BWS who have used the water resources information system for the operation of SDA facilities and infrastructure;
- e. The number of B/BWS whose capacity has been increased in the management of the water resources information system;
- f. Pilot project of network management of the H3 monitoring posts by the private sector with a Performance Base Contract (PBC).

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality growth;
- b. Regional development to reduce inequality and equity;
- c. Improve the quality of human resources and competitiveness;
- d. Strengthening infrastructure to support economic development and basic services; and
- e. Developing the environment, increasing disasters resilience and climate change.

## 12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	50,000,000	- Central Government : US\$	0
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
Subtotal : US\$	50,000,000	Subtotal : US\$	0
<b>TOTAL : US\$</b>	<b>50,000,000</b>		

- 
1. **Project Title** : **Asahan Irrigation Development in North Sumatera**
  2. **Program Title** : Multipurpose Storage for Water, Food, Flood, and Energy Program
  3. **Executing Agency** : Ministry of Public Works and Housing
  4. **Implementing Agency** : a. Directorate General of Water Resource, Ministry of Public Works and Housing  
b. Sumatera II RBO
  5. **Duration** : 60 months
  6. **Location** : North Sumatera, other prospective locations
- 

## 7. Objectives

Modernization, revitalization and integration of irrigation development to support national food security.

## 8. Scope of Works

- a. Detailed Engineering Design;
- b. Construction of irrigation network and irrigation infrastructure;
- c. Revitalization and development of lowland irrigation;
- d. Evaluation of lowland irrigation development and management;
- e. Hydrological restoration on lowland;
- f. Development of distribution of irrigation product;
- g. Forming/strengthening irrigation institution and asset management;
- h. Increasing the welfare of farmers/Water User Association (WUA) through participation in development, rehabilitation and O/M irrigation activities.

## 9. Outputs

- a. Lowland irrigation network and irrigation infrastructure
- b. Lowland irrigation area development and management plan
- c. Detailed design of development and revitalization of lowland irrigation areas
- d. Agricultural distribution support facilities
- e. Establishment and strengthening of irrigation institution
- f. Capacity building for irrigation water manager
- g. Asset management

## 10. Outcomes

- a. Development and revitalization of environmentally based lowland irrigation areas
- b. Increase in the food crop production
- c. Enhancement of O&M systems and asset management through soft component activities
- d. Lowland irrigation development approach based on improving the livelihoods of local farmers

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Building the environment, increasing disaster resilience and climate change

## 12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	515,000,000	- Central Government : US\$	35,000,000
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
Subtotal : US\$	515,000,000	Subtotal : US\$	35,000,000
<b>TOTAL : US\$</b>	<b>550,000,000</b>		

# **Disaster Resilience Infrastructure Program**

# **Ministry of Public Works and Housing**

1. **Project Title** : **Comprehensive Disaster Reduction and Management Improvement of Jeneberang River Basin**
  2. **Program Title** : Disaster Resilience Infrastructure Program
  3. **Executing Agency** : Ministry of Public Works and Housing
  4. **Implementing Agency** : Directorate General of Water Resources, Ministry of Public Works and Housing
  5. **Duration** : 72 months
  6. **Location** : Gowa Regency, Luwu Utara Regency, Takalar Regency and Makassar City, South Sulawesi Province
- 

## 7. Objectives

To reduce damage and economic losses due to future disaster through dam improvement on operation method and upgrading the dam facilities and monitoring, control and flood warning systems. Furthermore, this project also covered review or updating the existing flood control plan considering the change of land use and the effect on climate change.

## 8. Scope of Works

- a. Selectable water intake construction on Bili-Bili Dam
- b. Giant sand trap facilities construction on the Bili-Bili Dam's downstream area
- c. Sediment control construction on Gowa Regency
- d. Commencement of F/S, B/D and D/D for priority rehabilitation project
- e. Commencement of river dredging on Rongkong and Malangke River Basin
- f. Flood control building construction on Rongkong and Malangke River Basin
- g. Sediment control construction on Rongkong and Malangke River Basin
- h. Formulation of effective operational regulations for dams and improvement plans of dam management systems.
- i. Complete flood forecasting and warning system

## 9. Outputs

- a. Dam upgrading (improvement of spillway gate, water selectable intake, dam operation method)
- b. Sediment measures (sand pocket, check dam, sabo dam, dredging, etc)
- c. Flood control infrastructure
- d. Forecast system

## 10. Outcomes

- a. Increasing effective water storage
- b. Guaranteed supply of raw water
- c. Increasing of resilience against flood disaster
- d. River flow normalization and flood disaster mitigation
- e. Prolonging of life of Bili-Bili Dam
- f. Controlled sedimentation rates in the central and upstream areas

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening infrastructure to support economic development and basic services

c. Developing the environment, increasing disaster resilience and climate change

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 288,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 6,500,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 288,000,000	Subtotal : US\$ 6,500,000
<b>TOTAL : US\$ 294,500,000</b>	



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1. **Project Title** : **National Urban Flood Resilience Program (NUFReP)**
  2. **Program Title** : Disaster Resilience Infrastructure Program
  3. **Executing Agency** : Ministry of Public Works and Housing
  4. **Implementing Agency** : a. Directorate General of Water Resources, Ministry of Public Works and Housing  
b. Agency for River Area Management Sumatera I  
c. Agency for River Area Management Sumatera VIII  
d. Agency for River Area Management Kalimantan I  
e. Agency for River Area Management Kalimantan IV  
f. Agency for River Area Management Sulawesi I  
g. Agency for River Area Management Nusa Tenggara I
  5. **Duration** : 60 months
  6. **Location** : Aceh Province, South Sumatera Province, West Kalimantan Province, Central Kalimantan Province, North Sulawesi Province, West Nusa Tenggara Province.
- 

## 7. Objectives

The NUFReP project aims to strengthen flood resistance on designated areas through integrated flood control through components flood risk analytics and investment planning, support for flood resilience investments, capacity building and knowledge management dan program management support.

## 8. Scope of Works

- a. Flood risk analytics and investment planning
- b. Support for flood resilience investments
- c. Capacity building and knowledge management
- d. Program management support

## 9. Outputs

- a. Flood Control Channel (L) = 66 km
- b. Flow Normalization (L) = 60.1 km
- c. Embankment (L) = 34.9 km
- d. Parapet Embankment (L) = 23.65 km
- e. River Cliff Strengthening (L) = 58.7 km
- f. Flood Canal (L) = 16 km
- g. Flood risk management documentation

## 10. Outcomes

- a. Securing the flooded area covering 202,708.9 ha
- b. Residential area landscaped area of 1,320 ha

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening infrastructure to support economic development and basic services
- c. Developing the environment, increasing disaster resilience and climate change

## 12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	400,000,000	- Central Government : US\$	0
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
Subtotal : US\$	400,000,000	Subtotal : US\$	0
<b>TOTAL : US\$</b>	<b>400,000,000</b>		

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<b>1. Project Title</b>	<b>: Flood Management and Coastal Protection in North Java</b>
<b>2. Program Title</b>	: Disaster Resilience Infrastructure Program
<b>3. Executing Agency</b>	: Ministry of Public Works and Housing
<b>4. Implementing Agency</b>	: Directorate General of Water Resources, Ministry of Public Works and Housing
<b>5. Duration</b>	: 60 Months
<b>6. Location</b>	: Banten Province, West Java Province, Central Java Province, East Java Province.

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**7. Objectives**

To develop coastal protection and flood protection infrastructure in North Java Coastal Area in order to protect seaside society from abrasion and coastal erosion, degradation, flood, sedimentation and land subsidence.

**8. Scope of Works**

- a. Masterplan of coastal protection and flood Protection
- b. Detailed Engineering Design
- c. Study of land subsidence, including survey, investigation and design
- d. Drainage system planning
- e. Environmental impact assessment
- f. Construction of coastal protection infrastructure

**9. Outputs**

- a. Flow Normalization (L) = 24.05 km
- b. Flood Control Channel (L) = 12.05 km
- c. Embankment (L) = 10 km
- d. Water Sluice = 4 set
- e. Water Pump= 1 set
- f. Flood Canal = 2 set
- g. Seawall (L) = 11.8 km
- h. Breakwater(L) = 3.35 km

**10. Outcomes**

- a. Securing the flooded area covering 28,000 ha
- b. Residential area landscaped area of 67,775 ha
- c. Coastal area protection along 16.4 km of coastline

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening infrastructure to support economic development and basic services
- c. Developing the environment, increasing disaster resilience and climate change

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	500,000,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	500,000,000	Subtotal	: US\$	0
<b>TOTAL</b>	<b>: US\$</b>	<b>500,000,000</b>			

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<b>1. Project Title</b>	<b>: Integrated Urban Flood Management Project in JABODETABEK</b>
<b>2. Program Title</b>	<b>: Disaster Resilience Infrastructure Program</b>
<b>3. Executing Agency</b>	<b>: Ministry of Public Works and Housing</b>
<b>4. Implementing Agency</b>	<b>: Directorate General of Water Resources, Ministry of Public Works and Housing</b>
<b>5. Duration</b>	<b>: 72 months</b>
<b>6. Location</b>	<b>: DKI Jakarta, West Java, Banten Province</b>

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**7. Objectives**

To mitigate the risk of flooding and reduce the impact of flooding in the JABODETABEK region and increase resilience to flood disasters at the government level to the community, so that it can contribute to economic stability and national development.

**8. Scope of Works**

- a. Physical Structure & Flood Control:
  - i. Infrastructure for flood control & runoff (retention pool, groundwater storage & ground water channel)
  - ii. Rehabilitation/ Upgrade main flood control facility for DKI Jakarta are
  - iii. Rearranging and upgrading of main drainage area (outlet to Kali Bekasi) and drainage along the toll road junction (with jacking pipe channel or building the collector drain)
  - iv. Kali Blencong Normalization± 3.5 Km from BKT to Kali Pisang Batu
  - v. Integrated Operation Center - IOC
  - vi. Early Flood Warning Systems
- b. Consultation:
  - i. Detail Design
  - ii. Supervisions
  - iii. SOP Review for infrastructures
  - iv. Flood Hazard Map, Effective Communication System, Time series Action
  - v. Workshop/Knowledge Sharing

**9. Outputs**

- a. Structural Mitigation
  - i. Runoff Controlling Facilitation with a total capacity of 3 million m<sup>3</sup> (utilization of Situ, Lake, Embung, Reservoir- SDEW as a control pool. Underground storage around 500,000 m<sup>3</sup> in the center of DKI Jakarta, Bekasi or Tangerang).
  - ii. Rehabilitation / Improvement of the main flood control facilities for the DKI Jakarta area
  - iii. Structuring and Improvement of the Area's Main Drainage (drainage outlet leading to Bekasi River) and drainage along the toll road crossing (channel with Jacking Pipe or making a collector drain)
  - iv. Normalization of Blencong River± 3.5 Km from KBT until the meeting of Kali Pisang Batu.
  - v. Integrated Control Center (Integrated Operation Center - IOC). for pumps and sluice gates by PUPR / DKI Jakarta Provincial Government / City Government (preparation of

control rules for all facilities and construction of Control Centers for Regional Governments (DKI Provincial Government, West Java Provincial Government, Banten Provincial Government) and Central Government (Directorate General of Water Resources , Ministry of Public Works and Housing; BBWS Ciliwung Cisadane)

- vi. Development of a flood early warning system
- vii. Data center and integrated flood disaster data & information center
- b. Non-Structural Mitigation:
  - i. Detail Design
  - ii. Supervisions
  - iii. SOP Review for infrastructure
  - iv. Flood Hazard Map, Effective Communication System, Time series Action
  - v. Workshop/Knowledge Sharing

## 10. Outcomes

- a. Reducing JABODETABEK flood risk
- b. Increased resilience and preparedness for floods

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening infrastructure to support economic development and basic services
- c. Developing the environment, enhancing disaster resilience and climate change

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 800,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 240,000,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 800,000,000	Subtotal : US\$ 240,000,000
<b>TOTAL : US\$ 1,040,000,000</b>	

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<b>1. Project Title</b>	: <b>Urgent Disaster Reduction of Mt. Semeru, Mt. Kelud, Mt. Agung, and Other Erupted Volcanoes in Indonesia</b>
<b>2. Program Title</b>	: Disaster Resilience Infrastructure Program
<b>3. Executing Agency</b>	: Ministry of Public Works and Housing
<b>4. Implementing Agency</b>	: Directorate General of Water Resources, Ministry of Public Works and Housing
<b>5. Duration</b>	: 60 months
<b>6. Location</b>	: Central Java, D.I. Yogyakarta, East Java, Bali

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**7. Objectives**

Improve river systems to reduce the destructive force of water and the effects of cold lava floods and sediments.

**8. Scope of Works**

- a. Construction and rehabilitation of sabo dam
- b. Check dam construction
- c. River normalization
- d. Development and improvement of river embankments
- e. Making of tunnels and other supporting buildings

**9. Outputs**

- a. Construction of 44 units sabo dam
- b. Rehabilitation of 36 units sabo dam
- c. Construction of 8 units check dam
- d. Normalized river along 8.5 km
- e. Construction of 6 river embankments along 16.5 km
- f. Improvement river embankment along 12.5 km
- g. Tunnel, inspection road, and supporting buildings
- h. Detailed design of lava flooding controlling infrastructures due to the volcanoes eruption

**10. Outcomes**

- a. Sediments lava control
- b. Improving the function of the sabo building to reduce the destructive force of water due to cold lava floods
- c. Prevention of the impact of eruptions
- d. Reducing the impact of flooding due to the construction of dykes

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening economic resilience for quality and equitable growth
- b. Strengthening infrastructure to support economic development and basic services
- c. Developing the environment, increasing disaster resilience and climate change

## 12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	174,000,000	- Central Government : US\$	0
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
Subtotal : US\$	174,000,000	Subtotal : US\$	0
<b>TOTAL : US\$</b>	<b>174,000,000</b>		



# **Toll Road Development Program**

# **Ministry of Public Works and Housing**

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<b>1. Project Title</b>	<b>: Toll Road Development in Sumatera Islands</b>
<b>2. Program Title</b>	: Toll Road Development Program
<b>3. Executing Agency</b>	: Ministry of Public Works and Housing
<b>4. Implementing Agency</b>	: Directorate General of Highways, Ministry of Public Work and Housing
<b>5. Duration</b>	: 48 months
<b>6. Location</b>	: North Sumatera, Riau, Jambi, and South Sumatera Province

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**7. Objectives**

- a. Improve accessibility and connectivity in Sumatra Island;
- b. Support economic growth in Sumatra Island;
- c. Support the equitable development in Sumatra Island.

**8. Scope of Works**

Construction of toll road in Sumatra Island on the following sections:

- a. Dumai - Rantau Prapat
- b. Rantau Prapat - Kisaran
- c. Betung - Jambi
- d. Jambi - Rengat
- e. Rengat - Pekanbaru

**9. Outputs**

Availability of toll road in Sumatra Island with a length of 829 km on the following sections

- a. Dumai - Rantau Prapat
- b. Rantau Prapat - Kisaran
- c. Betung - Jambi
- d. Jambi - Rengat
- e. Rengat - Pekanbaru

**10. Outcomes**

- a. Reduced travel time;
- b. Improved connectivity and national logistics routes;
- c. Improved regional accessibility.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Regional development for reducing inequality
- b. Strengthening infrastructure for supporting economic development and basic services

## 12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	3,000,000,000	- Central Government : US\$	0
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
Subtotal : US\$	3,000,000,000	Subtotal : US\$	0
<b>TOTAL : US\$ 3,000,000,000</b>			

<b>1. Project Title</b>	: <b>Development of New Tunnels Alignment in Payakumbuh-Pangkalan Toll Road</b>
<b>2. Program Title</b>	: Toll Road Development Program
<b>3. Executing Agency</b>	: Ministry of Public Works and Housing
<b>4. Implementing Agency</b>	: Directorate General of Highways, Ministry of Public Work and Housing
<b>5. Duration</b>	: 48 months
<b>6. Location</b>	: West Sumatera and Riau Province

**7. Objectives**

- a. Improve connectivity and national road service between Padang city and Pekanbaru.
- b. Reduce travel time between Padang and Pekanbaru.
- c. Reduce the logistics cost of ground transportation.
- d. Improve the economy and trade between Padang and Pekanbaru.
- e. Provide alternative travel routes between Padang and Pekanbaru.

**8. Scope of Works**

- a. Construction work of Padang – Pekanbaru toll road Segment Payakumbuh - Pangkalan Section II.
- b. Consultancy work includes supervision activities for Costruction of toll road.

**9. Outputs**

Availability of tunnels on the Padang – Pekanbaru toll road Segment Payakumbuh - Pangkalan Section II with a length of 13.2 Km.

**10. Outcomes**

- a. Improved accessibility & mobility of residents in Padang, Pekanbaru and surrounding areas.
- b. Facilitate the distribution of goods and services between Padang and Pekanbaru City.
- c. Reduced average travel time per corridor for the main corridor.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Regional development for reducing inequality.
- b. Strengthening infrastructure for supporting economic development and basic services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 427,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 427,000,000	<hr/> Subtotal : US\$ 0
<b>TOTAL : US\$ 427,000,000</b>	

- 1. **Project Title** : **Development of Serang-Panimbang Toll Road (Cileles-Panimbang Section)**
- 2. **Program Title** : Toll Road Development Program
- 3. **Executing Agency** : Ministry of Public Works and Housing
- 4. **Implementing Agency** : Directorate General of Highways, Ministry of Public Work and Housing
- 5. **Duration** : 24 months
- 6. **Location** : Banten Province

**7. Objectives**

- a. Improve economic and connectivity in Tanjung Lesung
- b. Improve accessibility and connectivity in Banten Province
- c. Support economic growth in Banten Province

**8. Scope of Works**

Construction work of Serang – Panimbang toll road, Cileles - Panimbang section with a length of 33 km.

**9. Outputs**

Availability of Serang – Panimbang toll road, Cileles - Panimbang section with a length of 33 km.

**10. Outcomes**

- a. Improve accessibility to Tanjung Lesung Special Economic Zone (SEZ).
- b. Facilitate the distribution of goods and services to Tanjung Lesung SEZ.
- c. Improve economic growth in Tanjung Lesung SEZ.
- d. Provide efficient road transport in Banten Province.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Regional development for reducing inequality;
- b. Strengthening infrastructure for supporting economic development and basic services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 259,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 45,705,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 259,000,000	<hr/> Subtotal : US\$ 45,705,000
<b>TOTAL : US\$ 304,705,000</b>	

1. Project Title	: Development of Semarang-Demak Toll Road Project Integrated with Sea Dike
2. Program Title	: Toll Road Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Highways, Ministry of Public Works and Housing
5. Duration	: 36 months
6. Location	: Central Java Province

**7. Objectives**

Integrating Semarang – Demak toll road development with sea dike at Semarang City in order to prevent coastal flood, to increase economic growth, and to develop connectivity between Semarang City and Demak Regency.

**8. Scope of Works**

- a. Construction of Semarang – Demak Toll Road for government portion with total length of ± 10.8 km.
- b. Construction of sea dike located in eastern flood canal to Sayung River, consist of 2 (two) drainage subsystem, as follows:
  - i. Tenggang – Sringin Subsystem, between Eastern Flood Canal to Babon River;
  - ii. Sriwulan Subsystem, between Babon River to Sayung River.

**9. Outputs**

Semarang – Demak toll road integrated with sea dike at Semarang City with total length approximately 27 km, whereby the ± 10.8 km is Government Portion.

**10. Outcomes**

- a. Prevent coastal flood at Semarang City
- b. Expedite goods/services distribution between Semarang City and Demak Regency.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Strengthening infrastructure to support economic development and basic service.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 555,050,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 97,950,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 375,227,000</li> </ul>
<hr/> Subtotal : US\$ 555,050,000	<hr/> Subtotal : US\$ 473,177,000
<b>TOTAL : US\$ 1,028,227,000</b>	

1. <b>Project Title</b>	: <b>The Development of Kuala Tanjung-Tebing Tinggi-Parapat Toll Road</b>
2. <b>Program Title</b>	: Toll Road Development Program
3. <b>Executing Agency</b>	: Ministry of Public Works and Housing
4. <b>Implementing Agency</b>	: Directorate General of Highways, Ministry of Public Work and Housing
5. <b>Duration</b>	: 36 months
6. <b>Location</b>	: North Sumatera Province

## 7. Objectives

To encourage economic growth and service in the Kuala Tanjung- Tebing Tinggi-Parapat corridor, North Sumatra Province.

## 8. Scope of Works

Construction work of Kuala Tanjung-Tebing Tinggi-Parapat Toll Road, Parapat - Pematang Siantar and part of Pematang Siantar – Serbelawan section.

## 9. Outputs

Availability of Kuala Tanjung - Tebing Tinggi - Parapat toll road, section:

- Parapat - Pematang Siantar with a length of 39 Km.
- Part of Pematang Siantar – Serbelawan with a length of 11 Km.

## 10. Outcomes

- Improve accessibility to National Tourism Strategic Area (NTSA) Toba.
- Facilitate the distribution of goods and services to NTSA Toba.
- Improve economic growth in NTSA Toba and the area around Kuala Tanjung-Tebing Tinggi-Parapat.
- Provide efficiency in road transportation infrastructure in North Sumatra Province.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure for supporting economic development and basic services.

## 12. Project Cost

<ul style="list-style-type: none"> <li>Foreign Funding</li> <li>- Loan : US\$ 536,030,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 536,030,000	<hr/> Subtotal : US\$ 0
<b>TOTAL : US\$ 536,030,000</b>	



**Road and Bridge  
Development/Improvement  
Program**

# **Ministry of Public Works and Housing**

1. Project Title	: Development of Trans South – South Java Road Project Phase II
2. Program Title	: Road and Bridge Development/Improvement Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Highways, Ministry of Public Work and Housing
5. Duration	: 36 months
6. Location	: East Java Province

**7. Objectives**

- a. Improve accessibility and connectivity in the southern region of Java;
- b. Support economic growth in the southern region of Java;
- c. Support the equitable development in the southern region of Java.

**8. Scope of Works**

Construction of Trans South - South Java road on the following sections.

- a. Panggul - Craken - Munjungan – Prigi with a length of 44.02 km (Trenggalek Regency).
- b. Brumbun - P. Sine – Blitar with a length of 30.45 km (Tulungagung Regency).
- c. P. Serang - Summersih - Ringinrejo; Ringinrejo - Sp. Jolosutro - Bts. Malang Regency with a length of 31.83 km (Blitar Regency).
- d. Sendangbiru - Tamban - Bts. Lumajang with a length of 43.31 km (Malang Regency).
- e. Telepuk - Bago with a length of 26.38 km (Lumajang Regency).
- f. Sidodadi - Senenrejo - Bts. Kab. Banyuwangi with a length of 33.54 km.

**9. Outputs**

- a. The construction of Trans South - South Java road with a length of 209.53 km.
- b. Improve quality and capacity of roads and bridges to reduce travel times.

**10. Outcomes**

- a. Increase average growth of traffic to a minimum of 4 million by 2024.
- b. By 2024, 80% of the Trans South - South Java road corridor has been completed.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Regional development for reducing inequality;
- b. Strengthening infrastructure for supporting economic development and basic services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 450,000,000</li> <li>- Grant : US\$ 0</li> <li><hr/></li> <li>Subtotal : US\$ 450,000,000</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> <li><hr/></li> <li>Subtotal : US\$ 0</li> </ul>
<b>TOTAL : US\$ 450,000,000</b>	

- 
1. **Project Title** : Long Span Bridge Development for Selected Area
  2. **Program Title** : Road and Bridge Development/ Improvement Program
  3. **Executing Agency** : Ministry of Public Works and Housing
  4. **Implementing Agency** : Directorate General of Highways, Ministry of Public Works and Housing
  5. **Duration** : 60 months
  6. **Location** : Riau Archipelago, South Sumatera, Bangka Belitung, Southeast Sulawesi, and South Kalimantan Province.
- 

## 7. Objectives

- a. To improve the connectivity and accesibility for potensial region that separated by body of water
- b. To reduce operating vehicle cost

## 8. Scope of Works

Construction of Long Span Bridge for selected area in Sumatera, Kalimantan and Sulawesi Island.

## 9. Outputs

Long span bridges for selected area in Sumatera, Kalimantan and Sulawesi Island.

## 10. Outcomes

- a. Improve the accessibility and connectivity the potential region that separated by waters
- b. Decrease the operating vehicle cost

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic service.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 650,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 650,000,000	<hr/> Subtotal : US\$ 0
<b>TOTAL : US\$ 650,000,000</b>	

# Slum Alleviation Program

# **Ministry of Public Works and Housing**

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1. **Project Title** : **Livable Settlement Investment Project (LSIP)**
  2. **Program Title** : Slum Alleviation Program
  3. **Executing Agency** : Ministry of Public Works and Housing
  4. **Implementing Agency** :
    - a. Directorate General of Human Settlement, Ministry of Public Works and Housing
    - b. Directorate General of Housing Provision, Ministry of Public Works and Housing
    - c. Directorate General of Regional Development, Ministry of Home Affairs
    - d. Directorate General of Land Provision and Development, Ministry of Agrarian Affairs and Spatial Planning/National Land Agency
  5. **Duration** : 60 months
  6. **Location** : Selected Cities in Metropolitan Area
- 

**7. Objectives**

To improve quality of life for households living in existing slum through upgrading and providing housing including basic service infrastructure.

**8. Scope of Works**

- a. Planning and design formulation
- b. Land regularization
- c. Providing low-rise vertical housing
- d. Providing basic service infrastructure
- e. Capacity building
- f. Providing instrument of support system

**9. Outputs**

- a. Slum alleviation strategy in cities
- b. Improved housing and settlement
- c. Regulation and controlling system

**10. Outcomes**

Increasing number of households living in adequate housing and settlement

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Infrastructure development to support economic growth and basic services

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 150,000,000</li> <li>- Grant : US\$ 0</li> </ul> <hr/>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 2,000,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul> <hr/>
Subtotal : US\$ 150,000,000	Subtotal : US\$ 2,000,000
<b>TOTAL : US\$ 152,000,000</b>	



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1. **Project Title** : **Regency Settlement Infrastructure Development (RSID)**
  2. **Program Title** : Slum Alleviation Program
  3. **Executing Agency** : Ministry of Public Works and Housing
  4. **Implementing Agency** :
    - a. Directorate General of Human Settlements, Ministry of Public Works and Public Housing
    - b. Directorate General of Housing Provision, Ministry of Public Works and Housing
    - c. Directorate General of Regional Development, Ministry of Home Affairs
    - d. Directorate General of Spatial Planning, Ministry of Agrarian Affairs and Spatial Planning/National Land Agency
  5. **Duration** : 60 months
  6. **Location** : Bangka Central District, Bangka Belitung Province; Bekasi District, and Bandung District, West Java Province; Semarang District, and Sukoharjo District, Central Java Province; Gresik District, East Java Province
- 

**7. Objectives**

To improve quality of life for households living in peri-urban area through better urban planning along with housing and settlement delivery system.

**8. Scope of Works**

- a. Capacity building for central and local governments
  - i. Integrated development, spatial and detailed planning, implementing and controlling of peri-urban area development that complies with spatial plan.
  - ii. Policy development and policy coordination
  - iii. Managing capital investment in developing peri-urban area
- b. Assisting local government to formulate integrated masterplan of peri-urban area
- c. Providing basic service infrastructure along with housing provision strategy

**9. Outputs**

- a. Improved capacity of local governments and communities to incorporated integrated development of regency settlements infrastructure
- b. Improved spatial and building regulation compliances
- c. Improved quality and coverage of housing including basic service infrastructure

**10. Outcomes**

Improving number of household living in adequate housing and settlement

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Infrastructure development to support economic growth and basic services

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 90,000,000</li> <li>- Grant : US\$ 0</li> </ul> <hr/>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul> <hr/>
Subtotal : US\$ 90,000,000	Subtotal : US\$ 0
<b>TOTAL : US\$ 90,000,000</b>	

# **Water Supply System Development Program**

# **Ministry of Public Works and Housing**

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- 1. **Project Title** : **The Development of Regional Water Supply System in Wosusokas**
  - 2. **Program Title** : Water Supply System Development Program
  - 3. **Executing Agency** : Ministry of Public Works and Housing
  - 4. **Implementing Agency** : Directorate General of Human Settlements, Ministry of Public Works and Public Housing
  - 5. **Duration** : 36 months
  - 6. **Location** : Central Java Province
- 

**7. Objectives**

To enhance the quality of life in the region of Wosusokas (Wonogiri Regency, Sukoharjo Regency, Surakarta City, and Karanganyar Regency), which consist water processing installation with water outtake capacity 750 l/sec, main distribution network and house connection 60,000 unit or 240,000 people connected which can produce services that comply the 4K Principle (quality, quantity, continuity, affordability).

**8. Scope of Works**

- a. Construction of an electric mechanical system raw water unit with a capacity of 1,450 l/sec
- b. Construction of a complete IPA production unit with a capacity of 750 l/sec (Phase I)
- c. Construction of the main distribution unit, including a distribution network of 73,800 m
- d. Consulting services

**9. Outputs**

- a. Construction of a production unit with a capacity of 750 liters / second (Phase I)
- b. Construction of the main distribution unit, including a distribution network of 73,800 m

**10. Outcomes**

Providing access to drinking water for 240,000 people (60,000 SR) in Wonogiri Regency, Sukoharjo Regency, Surakarta City and Karanganyar Regency.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Strengthen the infrastructure to support economic development and basic services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li style="padding-left: 20px;">- Loan : US\$ 95,500,000</li> <li style="padding-left: 20px;">- Grant : US\$ 0</li> <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 95,500,000</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li style="padding-left: 20px;">- Central Government : US\$ 0</li> <li style="padding-left: 20px;">- Regional Government : US\$ 0</li> <li style="padding-left: 20px;">- State-Owned Enterprise : US\$ 0</li> <li style="padding-left: 20px;">- Others : US\$ 0</li> <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 0</li> </ul>
<b>TOTAL : US\$</b>	<b>95,500,000</b>

# **Sanitation and Waste Development Program**

# **Ministry of Public Works and Housing**

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1. **Project Title** : **Solid Waste Management for Sustainable Urban Development**
2. **Program Title** : Sanitation and Waste Development Program
3. **Executing Agency** : Ministry of Public Works and Housing
4. **Implementing Agency** : a. Directorate General of Human Settlements, Ministry of Public Works and Housing  
b. Directorate General of Regional Development, Ministry of Home Affairs
5. **Duration** : 48 months
6. **Location** : Banda Aceh City, Aceh Province; Bogor District, Cirebon City, and Bekasi City, West Java Province; Banyuwangi Districts, East Java Province
- 

## 7. Objectives

The Solid Waste Management for Sustainable Urban Development activity aims to support the achievement of the 2020-2024 RPJMN target and the 2030 SDGs target by increasing access to solid waste services, using appropriate technology that prioritizes sustainable principles.

## 8. Scope of Works

- Construction of waste processing facilities using appropriate technology and supporting buildings.
- Capacity building for managing institutions and operational assistance.

## 9. Outputs

- Implementation of construction and operation of waste processing facilities using appropriate technology.
- The achievement of capacity building for waste management institutions.

## 10. Outcomes

Continuous improvement of solid waste services by using appropriate technology.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- Strengthen infrastructure to support economic development and basic services.
- Build the environment, increase disaster resilience and climate change.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 150,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 150,000,000	Subtotal : US\$ 0
<b>TOTAL : US\$ 150,000,000</b>	



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<b>1. Project Title</b>	: <b>Wastewater Development System for City Wide Inclusive Sanitation</b>
<b>2. Program Title</b>	: Sanitation and Waste Development Program
<b>3. Executing Agency</b>	: Ministry of Public Works and Housing
<b>4. Implementing Agency</b>	: a. Directorate General of Human Settlements, Ministry of Public Works and Housing b. Regional Government in Central Java, West Kalimantan, and Bali Province
<b>5. Duration</b>	: 72 months
<b>6. Location</b>	: Semarang City, Central Java Province; Pontianak City, West Kalimantan Province; Denpasar City and Badung District, Bali Province

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## 7. Objectives

The Wastewater Development System for City Wide Inclusive Sanitation aims to support the achievement of the 2020-2024 RPJMN target and the 2030 SDGs target by increasing access to safely managed sanitation, through the City-Wide Inclusive Sanitation (CWIS) approach.

## 8. Scope of Works

- Increase the capacity of the Suwung wastewater treatment plant (WWTP) from 51,000 m<sup>3</sup>/day to 81,000 m<sup>3</sup>/day in Bali Province.
- Upgrade WWTP technology to meet quality standards in accordance with the Minister of Environment and Forestry Regulation Number 68 of 2016 in Bali Province.
- Expansion of the wastewater network service area in Bali Province.
- Construction of WWTP and urban scale wastewater piping networks in Semarang City and Pontianak City.

## 9. Outputs

- Improvement of sanitation services in Pontianak City by 36,000 households, in Semarang City by 55,500 households, and Denpasar City and Badung Regency by 235,400 households.
- Implementation of construction activities and operational of WWTP and the sewerage system.
- Achievement of capacity building for sanitation management institutions.

## 10. Outcomes

- Improvement of environmental quality by reducing pollution caused by domestic wastewater
- Improvement the quality of public health
- Increasing safely managed sanitation access by 24% in Pontianak City, 25% in Semarang City and 12% in Denpasar City & Badung Regency.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basis services

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 598,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 598,000,000	Subtotal : US\$ 0
<b>TOTAL : US\$ 598,000,000</b>	

# **Urban Mass Transportation Development Program**

# Ministry of Transportation

- 
1. **Project Title** : **Implementation Project of Public Transportation System**
  2. **Program Title** : Urban Mass Transportation Development Program
  3. **Executing Agency** : Ministry of Transportation
  4. **Implementing Agency** :
    - a. Directorate General of Land Transportation, Ministry of Transportation
    - b. Directorate General of Railway, Ministry of Transportation
    - c. Directorate General of Land Transportation, Ministry of Transportation
  5. **Duration** : 60 months
  6. **Location** :
    - a. Jakarta Metropolitan Area
    - b. Bandung Metropolitan Area
    - c. Medan Metropolitan Area
    - d. Surabaya Metropolitan Area
    - e. Semarang Metropolitan Area
    - f. Makasar Metropolitan Area; and
    - g. Other metropolitan cities
- 

## 7. Objectives

- a. Establish the implementation of public transportation system.
- b. Improve urban mobility and accessibility to support economic growth and reduce income inequality in the metropolitan cities prioritized in RPJMN 2020-2024.
- c. Improve institutional capacity in urban transport and mass transit development.

## 8. Scope of Works

- a. Central government support on the implementation of public transportation system in 6 metropolitan cities prioritized in RPJMN 2020-2024 and other cities in in line with the target of RPJMN 2020-2024 and RENSTRA 2020-2024; amongst others;
  - i. Development of public transport infrastructure and/or facilities
  - ii. Institutional development at sub-national governments on integrating cross jurisdiction urban transport system
  - iii. Other supports that are allowed as per laws and regulations
- b. Institutional development at central government on urban transport sector
- c. Studies on technical aspects, regulations, and policies on the implementation of urban transport system and mass transit

## 9. Outputs

- a. Implementation project of public transportation system established
- b. Institutions at central and local levels to implement the program established
- c. Mass transit at metropolitan cities developed
- d. Laws, regulations, standards, and guidelines related urban transport and mass transit issued.

## 10. Outcomes

- a. Growth of public transport user in the selected metropolitan cities
- b. Improvement of urban mobility and accessibility in the selected metropolitan cities
- c. Improvement of public transport user satisfaction on public transport service

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Regional development for reducing disparity
- b. Strengthen infrastructure to support economic development and basic service
- c. Developing the environment, enhancing disaster resilience and climate change.

## 12. Project Cost

<ul style="list-style-type: none"><li>• Foreign Funding</li><li>- Loan : US\$ 500,000,000</li><li>- Grant : US\$ 2,000,000</li></ul> <hr/> <p>Subtotal : US\$ 502,000,000</p>	<ul style="list-style-type: none"><li>• Counterpart Funding</li><li>- Central Government : US\$ 50,000,000</li><li>- Regional Government : US\$ 50,000,000</li><li>- State-Owned Enterprise : US\$ 0</li><li>- Others (PPP) : US\$ 100,000,000</li></ul> <hr/> <p>Subtotal : US\$ 200,000,000</p>
<b>TOTAL : US\$ 702,000,000</b>	

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<b>1. Project Title</b>	<b>: Construction of Jakarta Mass Rapid Transit East- West Line Project Phase I Stage I</b>
<b>2. Program Title</b>	: Urban Mass Transportation Development Program
<b>3. Executing Agency</b>	: Ministry of Transportation
<b>4. Implementing Agency</b>	: Directorate General of Railways, Ministry of Transportation
<b>5. Duration</b>	: 60 Months
<b>6. Location</b>	: DKI Jakarta Province

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**7. Objectives**

- a. To implement the development, improvement, and well-operation of Jabodetabek transportation.
- b. To integrate smooth, effective, efficient, safe, secure, comfortable and affordable transportation public services.

**8. Scope of Works**

- a. Construction of 20.1 km double track (elevated and underground track)
- b. Construction of 15 stations (7 elevated stations and 8 underground stations)
- c. Construction of a depot and service hall in Kalideres
- d. Construction of operation facilities along track (20.1 km).

**9. Outputs**

- a. The 20.1 km (elevated and underground track)
- b. 15 stations (7 elevated stations and 8 underground stations)
- c. A Depot and Service Hall in Kalideres
- d. Operation facilities along track (20.1 km).

**10. Outcomes**

- a. Modal share of public transport users is increased by 30% in 2024 than in 2020;
- b. Mobility and accessibility level of society to new networks is increased;
- c. Pollution in the corridor is decreased;
- d. The level of traffic safety and security in the corridor is increased;
- e. The level of community satisfaction and experience with public transport services is increased;
- f. The rules and standards related to the implementation of mass public transportation is structured.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening infrastructure to support economic development and basic service;
- b. Developing the environment, enhancing disaster resilience and climate change.

## 12. Project Cost

<ul style="list-style-type: none"><li>• Foreign Funding</li></ul>	<ul style="list-style-type: none"><li>• Counterpart Funding</li></ul>
- Loan : US\$ 2,438,666,000	- Central Government : US\$ 418,471,000
- Grant : US\$ 0	- Regional Government : US\$ 0
	- State-Owned Enterprise : US\$ 0
	- Others : US\$ 0
<hr/>	<hr/>
Subtotal : US\$ 2,438,666,000	Subtotal : US\$ 418,471,000
<b>TOTAL : US\$ 2,857,137,000</b>	



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<b>1. Project Title</b>	: <b>Engineering Services of Jakarta Mass Rapid Transit East - West Line Project Phase I Stage II</b>
<b>2. Program Title</b>	: Urban Mass Transportation Development Program
<b>3. Executing Agency</b>	: Ministry of Transportation
<b>4. Implementing Agency</b>	: Directorate General of Railways, Ministry of Transportation
<b>5. Duration</b>	: 14 months
<b>6. Location</b>	: DKI Jakarta Province

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**7. Objectives**

- a. To implement the development, improvement, and well-operation of Jabodetabek transportation
- b. To integrate smooth, effective, efficient, safe, secure, comfortable and affordable public transportation services

**8. Scope of Works**

- a. Engineering services of the elevated track and the underground track with a total length of 11.6 km (double track of 1,067 mm width);
- b. Engineering services of 9 elevated stations;
- c. Engineering services of a depot and service hall in Ujung Menteng;
- d. Engineering services of operation facilities along track (11.6 km).

**9. Outputs**

- a. Design of elevated track and the underground track with a total length of 11.6 km;
- b. Design of 9 elevated stations;
- c. Design of depot and service hall in Ujung Menteng;
- d. 11.6 km operation facility design.

**10. Outcomes**

- a. Policy recommendations of the elevated track and the underground track with a total length of 11.6 km;
- b. Policy recommendation of 9 elevated stations;
- c. Policy recommendation of a depot and service hall in Ujung Menteng;
- d. Policy recommendation of operation facilities along track (11.6 km).

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening infrastructure to support economic development and basic services;
- b. Developing the environment, enhancing disaster resilience and climate change.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 106,115,000</li> <li>- Grant : US\$ 0</li> </ul> <hr/>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul> <hr/>
Subtotal : US\$ 106,115,000	Subtotal : US\$ 0
<b>TOTAL : US\$ 106,115,000</b>	

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<b>1. Project Title</b>	<b>: Construction of Jakarta Mass Rapid Transit Project North-South Phase 2</b>
<b>2. Program Title</b>	: Urban Mass Transportation Development Program
<b>3. Executing Agency</b>	: a. Ministry Of Transportation Republic of Indonesia b. Provincial Government of DKI Jakarta
<b>4. Implementing Agency</b>	: a. Directorate General of Railways, Ministry of Transportation b. Provincial Government of DKI Jakarta c. PT. MRT Jakarta (Perseroda)
<b>5. Duration</b>	: 111 months
<b>6. Location</b>	: DKI Jakarta Province

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## 7. Objectives

- a. To increase the transport services and capacity in Jakarta metropolitan area in order to complete the backbone of urban transportation system for North-South corridor (Lebak Bulus – Ancol Barat).
- b. To stimulate economic activities as well as investment in the area, during the construction of Jakarta Mass Rapid Transit.

## 8. Scope of Works

- a. Construction of civil and railway system of MRT Jakarta phase 2A (Bundaran HI – Kota);
- b. Rolling stock procurement of MRT Jakarta phase 2A (Bundaran HI – Kota);
- c. Basic engineering design of MRT Jakarta phase 2B (Kota – Ancol Barat);
- d. Construction of civil dan railway system of MRT Jakarta phase 2B (Bundaran HI – Kota);
- e. Rolling stock procurement of MRT Jakarta phase 2B (Bundaran HI – Kota);
- f. Construction supervision of MRT Jakarta phase 2A (Bundaran HI – Kota);
- g. Construction supervision of MRT Jakarta phase 2B (Kota – Ancol Barat).

## 9. Outputs

- a. The availability of civil, railway systems, and rolling stock of MRT phase 2 north-south corridor (Bundaran HI-Kota-Ancol Barat) including depot and workshop;
- b. The availability of basic engineering design study for MRT phase 2B (Kota-Ancol Barat).

## 10. Outcomes

- a. The increase of user access to public transportation in urban area;
- b. The increase of public transportation user market segment in the urban area;
- c. The reduction of the personal vehicles uses in the big cities.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic service;
- b. Developing the environment, enhancing disaster resilience and climate change.

## 12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan	: US\$ 1,890,083,000	- Central Government	: US\$ 189,009,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Subtotal	: US\$ 1,890,083,000	Subtotal	: US\$ 189,009,000
<b>TOTAL : US\$ 2,079,092,000</b>			

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<b>1. Project Title</b>	: <b>Surabaya Regional Railway Line (Phase I)</b>
<b>2. Program Title</b>	: Urban Mass Transportation Development Program
<b>3. Executing Agency</b>	: Ministry of Transportation
<b>4. Implementing Agency</b>	: a. Directorate General of Railways, Ministry of Transportation b. Provincial Government of East Java Government
<b>5. Duration</b>	: 60 Months
<b>6. Location</b>	: Surabaya Metropolitan Region (GKS: Gresik, Bangkalan, Mojokerto, Surabaya, Sidoarjo, Lamongan)

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**7. Objectives**

The Surabaya commuter railway system project must eventually be envisaged as the backbone of a public transport network in the region. Together with the planned light rail and BRT systems, the conventional buses and other feeder systems, it will be a substantial contributor to reduce per-trip greenhouse gas emissions and air pollution caused by the road traffic.

**8. Scope of Works**

- a. Construction of civil works infrastructure, relocation, road works, road and railway bridges, railway viaducts, road underpasses, station buildings, etc.;
- b. Double-tracking and electrification of the railway line between Surabaya Pasar Turi, Surabaya Gubeng, Wonokromo and Sidoarjo;
- c. Construction of new commuter railway stations at Surabaya Pasar Turi, Surabaya Kota and Sidoarjo;
- d. Station remodeling at Surabaya Gubeng, Waru and Wonokromo, including basic functions of transit-oriented development;
- e. Installation, testing and commissioning of traction power supply, signalling/train control and telecommunications equipment as well as related IT, ticketing facilities at commuter stations, and of an electric train maintenance facility in Sidoarjo;
- f. Remodeling of the Sidotopo maintenance workshop;
- g. Study of land acquisition and resettlement, environmental and social impact mitigation.
- h. Development and introduction of a basic asset management system.
- i. Consulting services for design, procurement, construction supervision, safety certification and operational readiness, environmental and social management and monitoring, infrastructure maintenance training.

**9. Outputs**

- a. Service Corridor: Surabaya Pasar Turi - Surabaya Gubeng - Wonokromo – Sidoarjo;
- b. Stations: Surabaya Pasar Turi, Surabaya Kota, Surabaya Gubeng, Wonokromo, Waru, Gendangan, Sidoarjo;
- c. Length of the line: 27 km;
- d. Key characteristics: double track, electrified, centrally-controlled fixed-block three-aspect signaling system, automatic train protection, modern communication facilities and communication- based SCADA, level crossings will be eliminated or secured through technology;
- e. Maximum speed: 120 km/h;

- f. Services: four trains per hour and direction, with modern, comfortable and safe four-car, six-car and eight-car electric trainsets.

**10. Outcomes**

- a. Modal shift in urban and suburban passenger trips from road to rail, mainly from two-wheelers:
  - i. Annual ridership in 2041: 26.4 million @ 30% Railway Modal Split
  - ii. Annual ridership in 2050: 55.8 million @ 40% Railway Modal Split
- b. Reduction of the total and per-trip greenhouse gas emissions and air pollution:
  - i. Year 2041: minus 33,000 t CO2 per annum
  - ii. Year 2050: minus 66,000 t CO2 per annum
- c. Technology trigger (electrification, automatic train protection, BIM, asset management)
- d. Improvement of the livelihood of people in the railway corridor and access to public transport for lower-income people

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening infrastructure to support economic development and basic service;
- b. Developing the environment, enhancing disaster resilience and climate change.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 250,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 250,000,000	Subtotal : US\$ 0
<b>TOTAL : US\$ 250,000,000</b>	

**Transportation Safety  
and Security  
Improvement Program**

# Ministry of Transportation



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<b>1. Project Title</b>	: <b>Procurement of Third-Class Navigation Vessel</b>
<b>2. Program Title</b>	: Transportation Safety and Security Improvement Program
<b>3. Executing Agency</b>	: Ministry of Transportation
<b>4. Implementing Agency</b>	: Directorate General of Sea Transportation, Ministry of Transportation
<b>5. Duration</b>	: 36 months
<b>6. Location</b>	: DKI Jakarta Province

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**7. Objectives**

To fulfill the needs of navigation vessels in order to maintenance Aids to Navigation in Indonesia maritime territory to ensure safety shipping lanes.

**8. Scope of Works**

- a. Preparation of designs and technical specifications;
- b. Project auction;
- c. Vessels’ building and construction activities;
- d. Vessels’ handover and users.

**9. Outputs**

- a. 23 third class navigation vessels (new building).

**10. Outcomes**

- a. To support maritime development action plan in order to control and manage maritime resources for national welfare;
- b. To support the improvement of connectivity facilities and infrastructure, and to enhance marine resource institutional within the scope of supervision;
- c. To support the acceleration of marine economic development;
- d. To support the implementation of sea highway in supporting the logistic system;
- e. To support the development of implementation coordination system, monitoring and evaluation of maritime development.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening economic resilience for quality growth;
- b. Strengthening infrastructure to support economic development and basic service;
- c. Strengthening the stability of political, legal, defence, security and transforming in public services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 130,818,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 333,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 130,818,000	<hr/> Subtotal : US\$ 333,000
<b>TOTAL : US\$ 131,151,000</b>	

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1. **Project Title** : **Development and Improvement of Indonesia Aids to Navigation Project (AToN)**
  2. **Program Title** : Transportation Safety and Security Improvement Program
  3. **Executing Agency** : Ministry of Transportation
  4. **Implementing Agency** : Directorate General of Sea Transportation, Ministry of Transportation
  5. **Duration** : 40 months
  6. **Location** : Working area of District Navigation of Ambon, Banjarmasin, Belawan, Bena, Bitung, Cilacap, Jayapura, Kupang, Makassar, Merauke, Palembang, Pontianak, Samarinda, Sibolga, Sorong, Surabaya, Tarakan, Teluk Bayur, Tg Pinang, Tg Priok.
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## 7. Objectives

The objective of this project is to enhance the reliability level and technology on the 8 lighthouses and 95 light beacons in 20 districts of navigation in Indonesia.

## 8. Scope of Works

- a. Construction work for 95 light beacons and 8 lighthouses in 20 districts of navigation in Indonesia;
- b. Optical and electrical equipment including solar panel system, lighting rod system, LED lantern, emergency LED lantern, lantern housing, diesel generator, and charging controller.
- c. The aids to navigation in this project will be equipped with AIS (Automatic Identification System) and centralized RMCS (Remote Monitoring Control System);
- d. The officers who involved in operational of aids to navigation in this project will be given local training and overseas training to improve the skill and knowledge regarding the operational of aids to navigation;
- e. Consulting service for design, details structure, contractor selection, management, and supervision of the project as well as local and overseas maintenance training.

## 9. Outputs

- a. The enhancement of reliability level on the 8 lighthouses and 95 light beacons in 20 districts of navigation;
- b. The enhancement of the AtoN Technology on the 8 lighthouses and 95 light beacons in 20 Districts of Navigation;
- c. The enhancement of the availability on the AtoN spare parts on district of navigation.

## 10. Outcomes

The reliability of aids to navigation in selected areas will be improved and the safety of navigation and environmental protection in Indonesia waters will be maintained. This situation will improve the national marine economic and development of national connectivity.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality growth;
- b. Strengthening infrastructure to support economic development and basic service;

- c. Strengthening the stability of political, legal, defence, security and transforming in public services.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 67,255,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 4,464,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 67,255,000	Subtotal : US\$ 4,464,000
<b>TOTAL : US\$ 71,719,000</b>	

**Marine Connectivity  
Infrastructure  
Development Program**

# Ministry of Transportation

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1. <b>Project Title</b>	: <b>Patimban Port Development Project Phase 1-2</b>
2. <b>Program Title</b>	: Marine Connectivity Infrastructure Development Program
3. <b>Executing Agency</b>	: Ministry of Transportation
4. <b>Implementing Agency</b>	: Directorate General of Sea Transportation, Ministry of Transportation
5. <b>Duration</b>	: 41 months
6. <b>Location</b>	: Subang Regency, West Java Province

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## 7. Objectives

Patimban Port Development Project Phase I-2 is aimed to strengthen the port logistic capacity, reduce the congestion level in Jakarta by moving some freight traffic outside the capital area and improve total economic activities in the region by continuing the construction of Patimban Port Development Project Phase I-1 in order to fulfill the demand of container terminal and car terminal as well as truck cargo that projected to be increased every year.

## 8. Scope of Works

- a. Construction of container berth and container terminal;
- b. Construction of car berth and car terminal;
- c. Construction of ro-ro berth and ro-ro terminal;
- d. Construction of service boat berth and terminal;
- e. Construction of administration area including the building administration and utility area.

## 9. Outputs

- a. Container terminal with area of  $\pm 63.5$  Ha, the capacity up to  $\pm 3,388,704$  TEUs;
- b. Car Terminal with area of  $\pm 13.7$  Ha, the capacity up to  $\pm 600,000$  CBU.

## 10. Outcomes

- a. Increase the economic growth of the country and the local area with the emergence of business actors around the port;
- b. Increase the capacity of human resources around the port to support and contribute in the operation of the port;
- c. Support the connectivity between each transportation modes in the West Java region.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth;
- b. Development of regions to reduce inequality;
- c. Strengthening infrastructure to support economic development and basic services.

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	991,067,000	- Central Government	: US\$	0
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	991,067,000	Subtotal	: US\$	0
<b>TOTAL : US\$ 991,067,000</b>					

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1. <b>Project Title</b>	: <b>Eastern Indonesia Port-Led Development</b>
2. <b>Program Title</b>	: Marine Connectivity Infrastructure Development Program
3. <b>Executing Agency</b>	: Ministry of Transportation
4. <b>Implementing Agency</b>	: Directorate General of Sea Transportation, Ministry of Transportation
5. <b>Duration</b>	: 60 months
6. <b>Location</b>	: Maluku, East Nusa Tenggara, Papua and West Papua Province

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## 7. Objectives

Improve connectivity in Eastern Indonesia and between Eastern Indonesia and all islands including Java Island as the center of industry. In addition, improving the quality of port services by increasing the capacity of port infrastructures, creating good port management by improving reliable and efficient port service performance and prioritizing shipping safety aspects in supporting sustainable regional development.

## 8. Scope of Works

- a. The capacity of at least 10 non-commercial ports (including capitalized maintenance) in the provinces of Maluku, East Nusa Tenggara, Papua and West Papua;
- b. Supporting integrated development of commercial ports, including logistic hubs and industrial zones. This will include providing support for attracting private sector financing and transaction support;
- c. Building capacity to manage port and shipping operations development.

## 9. Outputs

- a. Preparation of supporting documents including pre-feasibility study, feasibility study, port masterplan, basic designs, social and environmental studies;
- b. Attract private sector financing for hub / commercial port development;
- c. Improving and upgrading of at least 10 non-commercial ports;
- d. Management of port and shipping operations.

## 10. Outcomes

- a. Improved of shipping services that are more efficient, frequent, safe and reliable as part of increasing connectivity;
- b. Increasing cargo volume and / or ship routes to non-commercial ports;
- c. Availability of integrated shipping routes between non-commercial ports and hub / commercial ports;
- d. Increasing private participation in port development;
- e. Reduced logistics costs in Eastern Indonesia;
- f. Lower government expenditures on “perintis” and “tol laut” shipping services.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and growth;
- b. Regional development to reduce inequality;



- c. Strengthening infrastructure to support economic development and basic services;
- d. Strengthening political, legal, defense and security stability and transforming public services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 187,014,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 187,014,000	<hr/> Subtotal : US\$ 0
<b>TOTAL : US\$ 187,014,000</b>	

**Information and  
Communication Technology  
Infrastructure Development  
Program**

# **Ministry of Communications and Information Technology**

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1. <b>Project Title</b>	: <b>Digitalization of Broadcasting System</b>
2. <b>Program Title</b>	: Information and Communication Technology Infrastructure Development Program
3. <b>Executing Agency</b>	: Ministry of Communications and Information Technology
4. <b>Implementing Agency</b>	: Public Broadcasting Institution (TVRI)
5. <b>Duration</b>	: 36 months
6. <b>Location</b>	: 29 Broadcasting Station (Head Office and Local Station) 227 Transmitting Stations nationwide

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## 7. Objectives

Improvement of access to information and education services through TVRI, entering the Digital Broadcast Era and new media service models to reach global networks with the quality, quantity and coverage of terrestrial digital TV broadcasts spread nationwide.

## 8. Scope of Works

- a. Procurement of transmitting system.
- b. Procurement of broadcast and production studio equipment system.
- c. Procurement of ICT facilities.
- d. Survey, instalation, testing and commissioning.
- e. Operational and maintenance training.
- f. Capacity building includes strategic cooperation with worldclass broadcasters for executive management program, production and operation management, and content creation.

## 9. Outputs

- a. Digitalization for studio system and equipment in 29 regional broadcasting stations and headquarter of TVRI.
- b. Digitalization for transmitter equipment in 227 transmitting stations.
- c. Integrated IT network to support digital broadcasting system.
- d. Professional human resources in broadcasting.

## 10. Outcomes

- a. Increased number of service areas covered by digital TV broadcast more than 90% of the total service areas.
- b. Improved video and audio quality with HD and 4K standard.
- c. Improved quality of service (QoS) of the digital TV broadcast in accordance to the prevailing regulation.
- d. Improved professionalism of LPP TVRI in terms of operation as well as organization.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Quality and competitive human resources development.
- b. Strengthening infrastructure to boost economic development and basic services.

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	373,154,000	- Central Government	: US\$	37,316,000
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	373,154,000	Subtotal	: US\$	37,316,000
<b>TOTAL : US\$ 410,470,000</b>					

- 
- |                               |   |
|-------------------------------|---|
| <b>1. Project Title</b>       | : <b>Strengthening of e-Government Infrastructure</b>                         |
| <b>2. Program Title</b>       | : Information and Communication Technology Infrastructure Development Program |
| <b>3. Executing Agency</b>    | : Ministry of Communications and Information Technology                       |
| <b>4. Implementing Agency</b> | : Ministry of Communications and Information Technology                       |
| <b>5. Duration</b>            | : 60 months   |
| <b>6. Location</b>            | : Bekasi Regency, West Java Province<br>East Kalimantan Province              |
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## **7. Objectives**

- a. Strengthening of e-Government infrastructures
- b. Provision of national data center as one of the foundations for implementing national digital transformation
- c. Improvement of the quality of governance and public services

## **8. Scope of Works**

- a. Development of national data center
- b. Provision of the national network operational center (NNOC)
- c. Provision of security operation center (SOC)
- d. Bigdata analytics basic system
- e. Capacity building for human resources

## **9. Outputs**

- a. Indonesian government's national data center
- b. National network operation center (NNOC)
- c. Security operation center (SOC)
- d. Big data analytics
- e. Training center

## **10. Outcomes**

- a. Realization of qualified, reliable and safe digital governance and public services
- b. Realization of data and information sovereignty

## **11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening infrastructure to support economic development and basic services
- b. Strengthening political, legal, as well as national defense and security stability and public services transformation

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	322,665,000	- Central Government	: US\$	42,545,000
			- Regional Government	: US\$	0
- Grant	: US\$	10,000,000	- State-Owned Enterprise	: US\$	0
			- Others (RM Pendukung)	: US\$	40,000,000
<hr/>			<hr/>		
Subtotal	: US\$	332,665,000	Subtotal	: US\$	82,545,000
<b>TOTAL : US\$ 415,210,000</b>					

**Attorney General's Office of the  
Republic of Indonesia**



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1. <b>Project Title</b>	: <b>Integrated Intelligence System of Attorney General Indonesia</b>
2. <b>Program Title</b>	: Information and Communication Technology Infrastructure Development Program
3. <b>Executing Agency</b>	: Attorney General's Office of the Republic of Indonesia
4. <b>Implementing Agency</b>	: Attorney General's Office of the Republic of Indonesia
5. <b>Duration</b>	: 60 months
6. <b>Location</b>	: DKI Jakarta Province

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## 7. Objectives

- a. To provide data and information sourced from internal and external parties as the basis for reporting and decision making.
- b. To provide a picture of the future situation based on existing historical data.
- c. To strengthen cyber security and resiliences.
- d. To increase the capacity of Attorney General's Office in identifying, analysing, interpreting, and presenting intelligence information for early warnings of possible threats and hinder law enforcement efforts to uphold justice and truth.

## 8. Scope of Works

- a. Big Data Intelligence
  - i. Development of intelligence big data system
  - ii. Procurement of supporting hardware for intelligence big data system
  - iii. Training on the use of big data systems for intelligence personnel
- b. Integrated Data Infiltration System to collecting data, device overrule and signal monitoring
- c. Procurement of integrated data infiltration system infiltration for data collection, device overrule and signal monitoring.
- d. Cyber dan Digital Forensics  
Procurement of cyber and forensic systems at the Attorney General's Office of the Republic of Indonesia.

## 9. Outputs

- a. Big Data Intelligence
  - i. Availability of intelligence big data system
  - ii. Availability of big data intelligence system support hardware
- b. Integrated Data Infiltration  
Availability of integrated data infiltration system for data collection, device overrule, and signal monitoring.
- c. Cyber and Digital Forensic  
Availability of cyber and forensic systems at the Attorney General's Office of the Republic of Indonesia

**10. Outcomes**

a. Big Data Intelligence

Availability of complete intelligence information to the leadership so that it supports the strategic decision-making process carried out by the leadership.

i. Integrated Data Infiltration

Increased quality of information and electronic communication data acquisition activities

ii. Cyber and Digital Forensic

Increased quality of information and digital data forensic acquisition activities.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Strengthening the stability of political, legal, defense, security and transforming in public services

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 300,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others (RM) : US\$ 0</li> </ul>
Subtotal : US\$ 300,000,000	Subtotal : US\$ 0
<b>TOTAL : US\$ 300,000,000</b>	

# **Fisheries and Marine Management Program**

# **Ministry of Marine Affairs and Fisheries**

1. **Project Title** : **Integrated of Fishing Ports and International Fish Markets**
  2. **Program Title** : Fisheries and Marine Management Program
  3. **Executing Agency** : Ministry of Marine Affairs and Fisheries
  4. **Implementing Agency** : a. Directorate General of Capture Fisheries, Ministry of Marine Affairs and Fisheries  
b. Directorate General of Competitiveness Strengthening of Marine and Fishery Products, Ministry of Marine Affairs and Fisheries
  5. **Duration** : 60 months
  6. **Location** : 26 fishing ports, nationwide, including 3 major project locations
- 

## 7. Objectives

- a. To develop integrated fishing port and fish markets which comply with international standards
- b. To improve infrastructure and facilities of fishing ports
- c. To increase Indonesia's fisheries export and added value of fisheries products

## 8. Scope of Works

- a. Preparation stage covers connectivity study, development study and detail design/DED, including analysis of sedimentation in fishing port and and fish market management systems.
- b. Construction works of basic, functional and supporting facilities.
- c. Supply of goods and equipment, among other for data processing equipment and office equipment, environmental control, communication and information system, as well as fish market management system.
- d. Training and transfer of knowledge and technology in the form of fishing port overseas training; fishing port and international fish market capacity building training (management, operation and maintenance), dissemination, workshop and consultation
- e. Maintenances and supervision of construction works

## 9. Outputs

- a. Availability of 3 (three) fishing ports which are integrated with the international fish market
- b. Improved fishing port facilities available in 26 locations (consisting of 3 major project locations and 23 other locations), as a hub and feeder fishing port to support connectivity of fishing ports and international standard fish markets.
- c. Implementation of fishing port management on training and / or transfer technology for 6 (six) training categories and market management.

## 10. Outcomes

- a. Improve fishing port operational services by 10% in 2025
- b. Increase export value of fisheries products

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening economic resilience for quality of growth and equitability

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 299,038,000</li> <li>- Grant : US\$ 962,000</li> </ul> <hr/>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 6,000,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul> <hr/>
Subtotal : US\$ 300,000,000	Subtotal : US\$ 6,000,000
<b>TOTAL : US\$ 306,000,000</b>	

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<b>1. Project Title</b>	<b>: Ocean for Prosperity-Infrastructure in Coral Reef Areas</b>
<b>2. Program Title</b>	: Fisheries and Marine Management Program
<b>3. Executing Agency</b>	: Ministry of Marine Affairs and Fisheries
<b>4. Implementing Agency</b>	: a. Directorate General of Marine Spatial Management, Ministry of Marine Affairs and Fisheries b. Directorate General of Capture Fisheries, Ministry of Marine Affairs and Fisheries c. Deputy of Maritime and Nature Resources, Ministry of National Development Planning (BAPPENAS)
<b>5. Duration</b>	: 60 months
<b>6. Location</b>	: Gorontalo, Maluku, North Maluku, Papua, West Papua, North Sulawesi dan East Nusa Tenggara Province

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## 7. Objectives

To enhance management of coral reef ecosystems and conservation areas by providing management infrastructure, improving the environment for coastal settlements, and improving socio-economic conditions, to increase resource conservation and community welfare.

## 8. Scope of Works

- a. Coral reef management infrastructure and conservation areas:
  - i. Strengthening conservation infrastructure
  - ii. Strengthening fishery infrastructure
- b. Project management, capacity building and sustainable funding:
  - i. Assistance and technical support
  - ii. Development of innovative funding mechanisms (blue financing)
  - iii. Project management

## 9. Outputs

- a. Coral Reef Management Infrastructure and Conservation Areas:
  - i. Conservation Infrastructure:
    - Infrastructure monitoring and field operations of National/Provincial MPA
    - Marine tourism infrastructure for sustainable use of coral reefs and MPA
    - Public education and awareness
    - New MPA established
  - ii. Fishery infrastructure
    - Reef fishery stock data and information
    - Infrastructure for coastal settlements and sustainable coral fisheries
- b. Project Management, Capacity Building and Sustainable Funding:
  - i. Assistance and support for management institutions, market access and finance
  - ii. Innovative funding mechanisms for coral reef and marine conservation programs
  - iii. Coordination, monitoring evaluation, and knowledge management.

## 10. Outcomes

Improvement of coral reef and fisheries resources management in eastern Indonesia through conservation and sustainable productive economy.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Improving the environment and resilience against natural disasters and climate change

## 12. Project Cost

<ul style="list-style-type: none"><li>• Foreign Funding</li><li>- Loan : US\$ 75,000,000</li><li>- Grant : US\$ 10,000,000</li></ul>	<ul style="list-style-type: none"><li>• Counterpart Funding</li><li>- Central Government : US\$ 0</li><li>- Regional Government : US\$ 0</li><li>- State-Owned Enterprise : US\$ 0</li><li>- Others : US\$ 0</li></ul>
<hr/> <b>Subtotal : US\$ 85,000,000</b>	<hr/> <b>Subtotal : US\$ 0</b>
<hr/> <b>TOTAL : US\$ 85,000,000</b>	



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<b>1. Project Title</b>	<b>: Maritime and Fisheries Integrated Surveillance System</b>
<b>2. Program Title</b>	: Fisheries and Marine Management Program
<b>3. Executing Agency</b>	: Ministry of Marine Affairs and Fisheries
<b>4. Implementing Agency</b>	: Directorate General of Surveillance for Marine and Fisheries Resources, Ministry of Marine Affairs and Fisheries
<b>5. Duration</b>	: 48 months
<b>6. Location</b>	: DKI Jakarta and Bali Province

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**7. Objectives**

To provide an integrated surveillance systems infrastructure on the land and sea in order to improve surveillance of marine and fishery resources

**8. Scope of Works**

- a. Procurement of 3 (three) fisheries patrol vessels
- b. Construction and development maritime integrated surveillance and communications network systems including maritime information services
- c. Construction and development of Signal Intelligence (SIGNIT) system
- d. Capacity building

**9. Outputs**

- a. The constructed fisheries patrol vessels
- b. The integrated and operated marine resources and fisheries monitoring/surveillance system

**10. Outcomes**

Increased coverage of Fisheries Management Area (WPP NRI) monitored from illegal fishing

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Stable political, legal, and security affairs, and transformation of public services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 159,500,000</li> <li>- Grant : US\$ 2,500,000</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 162,000,000	<hr/> Subtotal : US\$ 0
<b>TOTAL : US\$ 162,000,000</b>	

1. **Project Title** : **Infrastructure Improvement for Shrimp Aquaculture**
  2. **Program Title** : Fisheries and Marine Management Program
  3. **Executing Agency** : Ministry of Marine Affairs and Fisheries
  4. **Implementing Agency** : Directorate General of Aquaculture, Ministry of Marine Affairs and Fisheries
  5. **Duration** : 60 months
  6. **Location** : Lampung, Banten, Central Java, East Java, South Sulawesi, Bali, and Aceh Province
- 

## 7. Objectives

To increase national shrimp production both in quantity and quality through: (i) providing shrimp pond drains to support sustainable shrimp production (ii) providing laboratories to support shrimp production; (iii) increasing the quality and quantity of shrimp broodstock and shrimp seed; and (iv) increasing technology adoption by shrimp farmers; and (vii) improving the shrimp farmer welfare.

## 8. Scope of Works

- a. Shrimp ponds drains development in shrimp pond area:
  - i. Shrimp ponds drains development
  - ii. Sustainable shrimp ponds development
- b. Development of good quality broodstock infrastructure such as:
  - i. Broodstock center development
  - ii. Laboratories development
  - iii. Technical training
- c. Project management

## 9. Outputs

- a. Construction of shrimp ponds drains in 4 areas and construction sustainable shrimp ponds in 3 areas.
- b. Development of 3 broodstock center; development of 6 laboratories and technical training in 7 locations.

## 10. Outcomes

- a. Increasing in aquaculture production to 10.32 million tons (including shrimp by 1.52 million tons) in 2024 or increase by 8.5 percent per year;
- b. Shrimp export volume growth increased by 8% per year and shrimp export value growth by 250% from 2019 to 2024

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening and improving economic resilience for quality and equitable growth

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	93,000,000	- Central Government	: US\$	0
- Grant	: US\$	5,000,000	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	98,000,000	Subtotal	: US\$	0
<b>TOTAL</b>	<b>: US\$</b>	<b>98,000,000</b>			

- 
1. **Project Title** : **Outer Ring Fishing Ports Development (Eco Fishing Port)**
  2. **Program Title** : Fisheries and Marine Management Program
  3. **Executing Agency** : Ministry of Marine Affairs and Fisheries
  4. **Implementing Agency** : Directorate General of Capture Fisheries, Ministry of Marine Affairs and Fisheries
  5. **Duration** : 60 months
  6. **Location** : 4 fishing ports at North Sumatera, North Sulawesi, Southeast Sulawesi, and Bangka Belitung Province
- 

## 7. Objectives

To develop environmentally friendly fishing ports which comply with international standards in order to improve Indonesia's fisheries export.

## 8. Scope of Works

- a. Preparation in the form of consulting services which includes master plan reviews and detail design, environmental studies, atlas of fisheries and fishing ports in Indonesia, and ISO documents
- b. Construction/civil works of basic facilities, functional facilities and supporting facilities of fishing ports.
- c. Procurement of goods and equipment, include data processing and office equipment.
- d. Training and transfer of knowledge and technology (transversal component) in the form of electronic reporting system, port management system, capacity building and training, port management study, and ocean energy study for support of fishing port operations, as well as consultation; and
- e. Supervision of construction work/construction management and maintenance

## 9. Outputs

- a. Availability of eco fishing port facilities
- b. The implementation of an electronic reporting system (FPIC Eco-System Feature, E-Logbook, Product Traceability System)
- c. The availability of a fishery port management system
- d. The implementation of training and transfer of knowledge & technology
- e. The document study on fishing port management, marine energy and consultant to support (CTS) available
- f. The fishing port certified by ISO 14001

## 10. Outcomes

- a. Increased consumer satisfaction index related to operational services at fishing ports based on environmentally friendly
- b. Improved traceability of fish products
- c. Increasing the certification of good fish handling methods at fishing ports
- d. Increase economic value (multiplier effect) at fishing ports

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening economic resilience for quality and equitable growth

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 105,350,000</li> <li>- Grant : US\$ 2,155,000</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 4,619,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 107,505,000	Subtotal : US\$ 4,619,000
<b>TOTAL : US\$ 112,124,000</b>	

# **Health Services Improvement Program**

# Ministry of Health

- 
- |                               |   |
|-------------------------------|---|
| 1. <b>Project Title</b>       | : <b>Strengthening of National Referral Hospital and Vertical Technical Unit</b>  |
| 2. <b>Program Title</b>       | : Health Services Improvement Program   |
| 3. <b>Executing Agency</b>    | : Directorate General of Health Services, Ministry of Health  |
| 4. <b>Implementing Agency</b> | : Dharmais Cancer Hospital, Persahabatan Hospital, Dr. Hasan Sadikin Hospital, Dr. Sardjito Hospital, Sanglah Hospital, and Dr. Wahidin Sudirohusodo Hospital |
| 5. <b>Duration</b>            | : 60 months   |
| 6. <b>Location</b>            | : DKI Jakarta, West Java, DI Yogyakarta, Bali, and South Sulawesi Province.   |
- 

## 7. Objectives

- To improve the availability, accessibility and quality of health care in Indonesia
- To improve health care innovation in Indonesia
- To optimize the functions of vertical hospitals
- To strengthen referral system
- To realize the accuracy of budget allocation at the vertical hospitals

## 8. Scope of Works

- Build new building of health care center in the project locations
- Procure medical and nonmedical equipment in the project locations
- Improve human resource capacity and to strengthening emergency/pandemic preparedness (trainings and educations)
- Strengthen hospital institution (health care network stewardship and research)
- Improve project management and information system

## 9. Outputs

- Number of health facilities built in the project location
- Number of bed patient added for inpatient and intensive care services
- Medical equipment and nonmedical equipment procured
- Number of human resources trained
- Number of human resources improved the education level
- Number of human resources trained in emergency and pandemic preparedness
- Number of collaboration and networking researches

## 10. Outcomes

- To improve coverage in mother and child health care in the project locations
- To reduce number maternal mortality in the project locations
- To reduce maternal mortality rate in the project locations
- To improve number of livebirths delivered in the project locations
- To reduce number of neonatal mortalities in the project locations
- To reduce neonatal mortality rate in the project locations
- To reduce number of under-five mortality in the project locations
- To increase number of under-five treated in the project locations
- To increase integrated referral system utilization
- To develop hospital service excellences



- k. To improve coverage of cancer care in the project location (Dharmais Cancer Hospital)
- l. To improve 5 years survival rate of cancer in the project location (Dharmais Cancer Hospital)
- m. To improve 5 years survival rate of breast cancer in the project location (Dharmais Cancer Hospital)
- n. To improve 5 years survival rate of leukemia in children in the project location (Dharmais Cancer Hospital)
- o. To reduce cancer mortality rate in the project location (Dharmais Cancer Hospital)
- p. To improve respiratory health care coverage in the project location (Persahabatan Hospital)
- q. To improve cure rate of MOR-TB in the project location and its network (Persahabatan Hospital)
- r. To improve clinical pathway compliance
- s. Response time rate of complain handling
- t. To improve emergency response time

#### 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. To develop regions reducing disparity
- b. To improve quality and competitive human resources
- c. To strengthen infrastructure to support economic development and basic services
- d. To build the environment, to enhance disaster resilience and climate change

#### 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 261,718,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 31,361,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 261,718,000	<hr/> Subtotal : US\$ 31,361,000
<b>TOTAL : US\$ 293,079,000</b>	

- 
1. **Project Title** : **Improvement of Facilities and Infrastructure for Teaching and Learning Activities in Health Sector Project**
  2. **Program Title** : Health Services Improvement Program
  3. **Executing Agency** : Board for Development and Empowerment Human Health Resources
  4. **Implementing Agency** :
    - a. Health Polytechnics
    - b. Ministry of Health Training Center
    - c. Board for Education Center for Health Professionals
    - d. Board for Development and Empowerment Human Health Resources
  5. **Duration** : 60 months
  6. **Location** : Papua, Java, Sumatera, and Sulawesi Island
- 

## 7. Objectives

- a. Building an integrated system concept for teaching and learning in improving systems and institutions at the central and regional levels.
- b. Improving facilities, infrastructure and equipment for teaching learning process of Health Polytechnic.
- c. Improving facilities, infrastructure, and equipment to support the training process at two Health Training Centers.

## 8. Scope of Works

- a. Improvement of education and training service infrastructure.
- b. Improvement of educational facilities / laboratories / offices.
- c. Increased human resource capacity.
- d. Development of educational curricula and modules.
- e. Project management.

## 9. Outputs

- a. Fulfilled education and training service infrastructure facilities.
- b. Fulfilled educational / laboratory / office facilities.
- c. Increased number of human resources.
- d. The number of educational curricula and modules increases.

## 10. Outcomes

- a. The number of health polytechnics and health training centers which are well accredited and very good.
- b. Minimum number of accredited intervening study programs B.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Increasing quality and competitive human resources.

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	109,400,000	- Central Government	: US\$	9,200,000
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	109,400,000	Subtotal	: US\$	9,200,000
<b>TOTAL : US\$ 118,600,000</b>					

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<b>1. Project Title</b>	<b>: Strengthening of National Referral Hospital on Oncology Center</b>
<b>2. Program Title</b>	: Health Services Improvement Program
<b>3. Executing Agency</b>	: Directorate General of Health Services, Ministry of Health
<b>4. Implementing Agency</b>	: H. Adam Malik Hospital, Dr. M. Djamil Hospital, Dr. M. Hoesin Hospital, Prof. Dr. RD Kandou Hospital, Sanglah Hospital
<b>5. Duration</b>	: 60 Months
<b>6. Location</b>	: North Sumatera, West Sumatera, South Sumatera, and North Sulawesi, and Bali Province

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## 7. Objectives

- a. To improve the availability, accessibility and quality of health care in Indonesia
- b. To improve health care innovation in Indonesia
- c. To optimize the functions of vertical hospitals
- d. To strengthen referral system
- e. To realize the accuracy of budget allocation at the vertical hospitals

## 8. Scope of Works

- a. To build new building cancer care center in the project locations, to build new central operating theater in Dr. M. Djamil Hospital; to renovate operating theaters and inpatient ward buildings in H. Adam Malik Hospital
- b. To procure medical and nonmedical equipment
- c. To improve human resource capacity (trainings in various skills and competences)
- d. To improve project management and information system, including strengthening of networking services

## 9. Outputs

- a. Number of health facilities built and renovated in the project location
- b. Number of bed patient added for inpatient and intensive care services
- c. Medical equipment and nonmedical equipment procured
- d. Number of human resources trained

## 10. Outcomes

- a. To improve coverage of cancer care
- b. To improve cancer and tumor care response time
- c. Number of cancer operative therapy
- d. To reduce waiting time of radiotherapy and chemotherapy
- e. To improve 5 years survival rate of cancer
- f. To reduce cancer mortality rate
- g. To improve clinical pathway compliance
- h. To increase integrated referral system utilization
- i. To develop hospital service excellences
- j. To improve response time rate of complain handling
- k. To improve emergency response time
- l. To strengthen cancer care networking and stewardship
- m. To strengthen cancer surveillance and national cancer registry

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. To develop regions reducing disparity
- b. To improve quality and competitive human resources
- c. To strengthen infrastructure to support economic development and basic services
- d. To build the environment, to enhance disaster resilience and climate change

## 12. Project Cost

<ul style="list-style-type: none"><li>• Foreign Funding</li><li>- Loan : US\$ 205,144,000</li><li>- Grant : US\$ 0</li></ul>	<ul style="list-style-type: none"><li>• Counterpart Funding</li><li>- Central Government : US\$ 0</li><li>- Regional Government : US\$ 0</li><li>- State-Owned Enterprise : US\$ 0</li><li>- Others : US\$ 0</li></ul>
<hr/> <b>Subtotal : US\$ 205,144,000</b>	<hr/> <b>Subtotal : US\$ 0</b>
<hr/> <b>TOTAL : US\$ 205,144,000</b>	

# Ministry of Defense

- 
1. **Project Title** : **Upgrading Medical Equipment and Support for Army Hospitals**
  2. **Program Title** : Health Services Improvement Program
  3. **Executing Agency** : Ministry of Defense
  4. **Implementing Agency** : a. Ministry of Defense  
b. Indonesian Army
  5. **Duration** : 36 months
  6. **Location** : Nationwide
- 

**7. Objectives**

- a. To improve the diagnostic and treatment for patients;
- b. To improve health care services;
- c. To enhance hospital's capacity in diagnosis, therapy, rehabilitation, etc.;
- d. To upgrade supporting services for the hospital.

**8. Scope of Works**

- a. Procurement and instalment of medical equipment
- b. Training for operating of medical equipments
- c. Training for maintenance of medical equipment and hospital system development

**9. Outputs**

Upgrading medical equipments and supporting facilities for 12 army hospitals:

- a. Army Hospital Dustira;
- b. Army Hospital Soedjono;
- c. Army Hospital Pelamonia;
- d. Army Hospital Udayana;
- e. Army Hospital dr. AK Gani;
- f. Army Hospital Salak;
- g. Army Hospital dr. R Hardjanto;
- h. Army Hospital Kartika Husada;
- i. Army Hospital Prof. Dr. J. A. Latumeten Hospital;
- j. Army Hospital Marthen Indey;
- k. Army Hospital Moh Ridwan Meuraksa;
- l. Army Hospital Iskandar Muda.

**10. Outcomes**

- a. Ensured professionalism for Indonesian Army;
- b. Optimized effectiveness military operation conducted by Indonesian Army.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Stable political, legal, and security affairs, and transformation of public services.

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	130,354,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	130,354,000	Subtotal	: US\$	0
<b>TOTAL</b>	<b>: US\$</b>	<b>130,354,000</b>			



- 
- 1. **Project Title** : **Upgrading Medical Equipment and Support for Navy Hospitals**
  - 2. **Program Title** : Health Services Improvement Program
  - 3. **Executing Agency** : Ministry of Defense
  - 4. **Implementing Agency** : a. Ministry of Defense  
b. Indonesian Navy
  - 5. **Duration** : 36 months
  - 6. **Location** : Nationwide
- 

**7. Objectives**

- a. To improve the diagnostic and treatment for patients;
- b. To improve health care services;
- c. To enhance hospital’s capacity in diagnosis, therapy, rehabilitation, etc.;
- d. To upgrade supporting services for the hospital.

**8. Scope of Works**

- a. Procurement and instalment of medical equipment
- b. Training for operating of medical equipment
- c. Training for maintenance of medical equipment and hospital system development

**9. Outputs**

Upgrading medical equipments and supporting facilities for 6 navy hospitals:

- a. Navy Hospital dr. Ramelan;
- b. Navy Hospital dr. Oetojo;
- c. Navy Hospital dr Midyato;
- d. Navy Hospital dr. Komang;
- e. Navy Hospital dr. Ilyas;
- f. Navy Hospital dr. Mintohardjo.

**10. Outcomes**

- a. Ensured professionalism for Indonesian Navy;
- b. Optimized effectiveness military operation conducted by Indonesian Navy.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Stable political, legal, and security affairs, and transformation of public services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li style="padding-left: 20px;">- Loan : US\$ 67,722,000</li> <li style="padding-left: 20px;">- Grant : US\$ 0</li> <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 67,722,000</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li style="padding-left: 20px;">- Central Government : US\$ 0</li> <li style="padding-left: 20px;">- Regional Government : US\$ 0</li> <li style="padding-left: 20px;">- State-Owned Enterprise : US\$ 0</li> <li style="padding-left: 20px;">- Others : US\$ 0</li> <li style="border-top: 1px solid black; padding-top: 5px;">Subtotal : US\$ 0</li> </ul>
<b>TOTAL : US\$ 67,722,000</b>	

- 
1. **Project Title** : **Upgrading Medical Equipment and Support for Airforce Hospitals**
  2. **Program Title** : Health Services Improvement Program
  3. **Executing Agency** : Ministry of Defense
  4. **Implementing Agency** : a. Ministry of Defense  
b. Indonesian Air Force
  5. **Duration** : 36 months
  6. **Location** : Nationwide
- 

## 7. Objectives

- a. To improve the diagnostic and treatment for patients;
- b. To improve health care services;
- c. To enhance hospital's capacity in diagnosis, therapy, rehabilitation, etc.;
- d. To upgrade supporting services for the hospital.

## 8. Scope of Works

- a. Procurement and instalment of medical equipment
- b. Training for operating of medical equipment
- c. Training for maintenance of medical equipment and hospital system development

## 9. Outputs

Upgrading medical equipments and supporting facilities for at least 6 air force hospitals:

- a. Air Force Hospital dr. S. Hardjolukito;
- b. Air Force Hospital Muhammad Sutomo;
- c. Air Force Hospital dr Kresno Manuhua;
- d. Air Force Hospital dr. Hoediyono;
- e. Air Force Hospital El Tari;
- f. Infectious Hospital for Air Force.

## 10. Outcomes

- a. Ensured professionalism for Indonesian Air Force;
- b. Optimized effectiveness military operation conducted by Indonesian Air Force.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Stable political, legal, and security affairs, and transformation of public services.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 139,999,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 139,999,000	<hr/> Subtotal : US\$ 0
<b>TOTAL : US\$ 139,999,000</b>	

**Improvement of National  
Capability for Science and  
Technology Adaption and  
Innovation Creation Program**

# **Ministry of Research and Technology**

- 
1. **Project Title** : **Promoting Research and Innovation through Modern and Efficient Science and Techno Park (PRIME SteP): Development of Science and Technology Parks**
  2. **Program Title** : Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program
  3. **Executing Agency** : Ministry of Research and Technology
  4. **Implementing Agency** :
    - a. Ministerial Secretary of Research and Technology/Main Secretary of National Research and Innovation Agency
    - b. University of Indonesia
    - c. Bogor Agricultural Institute
    - d. Bandung Institute of Technology
    - e. Gadjah Mada University
  5. **Duration** : 60 months
  6. **Location** : Central Jakarta, DKI Jakarta Province  
Depok City, West Java Province  
Bogor City, West Java Province  
Bandung City, West Java Province  
Sleman Regency, Special Region of Yogyakarta Province  
North Penajam Regency, East Kalimantan Province
- 

## 7. Objectives

- a. Carrying out the development of 4 Science and Techno Parks (STPs) in higher education institutions that are already in the intermediate STP (STP Madya) stage to become the main STP (*STP Utama*), as the national innovation hub under triple-helix scheme;
- b. Developing STP staffs in managing innovation process;
- c. Enhancing productive ecosystem for research and innovation through the development of innovation cluster in the Indonesia new capital;
- d. Study of smart cities and autonomous vehicles;
- e. Innovation-based economic research.

## 8. Scope of Works

- a. Institutional strengthening of Science Techno Park (STP);
- b. Capacity building of STP staffs;
- c. Strengthening the implementation of innovation (business process) at STP;
- d. Procurement of STP equipments;
- e. Designing the Innovation Cluster at IKN as a global innovation hub as a milestone for the development of science, technology, and innovation in Indonesia
- f. Capacity building of researchers and operational staffs in Innovation Cluster;
- g. Assessment and development of autonomous vehicles to support the development of the I the Indonesia New Capital as a smart and future city;
- h. Research and study of innovative economics as a strategy for developing Indonesia's future economy;

## 9. Outputs

- a. Infrastructure
- b. Human Resources
- c. Product
- d. Study
- e. Institutional

## 10. Outcomes

- a. 4 STPs upgraded to *Utama* maturity level;
- b. 232 technology-based start-ups business;
- c. Increased the success rate of business incubation process technology (from 25% to 50%);
- d. Increased revenue of STP and tenants;
- e. The number of workers absorbed due to innovation/start-ups/industry activities at STP;
- f. Establishment of 1 Innovation Cluster in Indonesia New Capital;
- g. Issuance of guidelines for the development and operation of smart city/intelligent transport systems in major cities of Indonesia by the government;
- h. Issuance of standards and policies to support the operation of autonomous electric vehicles in Indonesia, also the availability of algorithms and blueprints for the development of autonomous electric vehicles in Indonesia; and
- i. The formation of an innovation-based Indonesian Economic Development model with collaboration between the private sector, the public, research institutions and universities, and identification of a policies that encourages increased contribution of private sector's R&D budgets.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Increasing qualified and competitive human resources

## 12. Project Cost

<ul style="list-style-type: none"><li>• Foreign Funding</li></ul>		<ul style="list-style-type: none"><li>• Counterpart Funding</li></ul>	
- Loan : US\$	198,299,000	- Central Government : US\$	19,830,000
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
<hr/>		<hr/>	
Subtotal : US\$	198,299,000	Subtotal : US\$	19,830,000
<b>TOTAL : US\$</b>	<b>218,129,000</b>		

- 
1. **Project Title** : **Higher Education and Research Facility Development: Research and Innovation Capacity Development**
  2. **Program Title** : Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program
  3. **Executing Agency** : Ministry of Research and Technology
  4. **Implementing Agency** : a. Ministerial Secretary of Research and Technology/Main Secretary of National Research and Innovation Agency  
b. Eijkman Institute for Molecular Biology  
c. Andalas University  
d. National Nuclear Energy Agency of Indonesia (BATAN)
  5. **Duration** : 60 months
  6. **Location** : DKI Jakarta Province  
Tangerang, Banten Province  
Bogor, Depok, Bekasi, West Java Province  
Padang, West Sumatera Province
- 

## 7. Objectives

To increase research and innovagion capacity of Indonesia in health and medicine field through the development of state-of-the-art research and innovation facilities staff capacity development in Eijkman Institute for Molecular Biology, Andalas University, and National Nuclear Energy Agency of Indonesia.

## 8. Scope of Works

- a. Construction / renovation of buildings and laboratories
- b. Procurement of laboratory equipments
- c. Human resource development
- d. Institutional development of Eijkman Institute for Molecular Biology as a Public Service Agency (Badan Layanan Umum/ BLU)
- e. Research collaboration

## 9. Outputs

- a. Eijkman Institute for Molecular Biology:
- b. Andalas University
- c. National Nuclear Energy Agency of Indonesia

## 10. Outcomes

- a. Eijkman Institute for Molecular Biology;
  - i. Increased institutional capacity, human resources, and implementation of innovation in the health sector of Eijkman Institute for Molecular Biology as an international standard STP in biomolecular;
  - ii. Increased qualities and quantities of researches and innovations (advanced and frontiers technology) in the field of biomolecular; and
  - iii. Increased national and international partnerships for research, innovation and innovation product commercialization in molecular field.
- b. Andalas University;

- i. Increased institutional capacity, human resources, and implementation of innovation / commercialization of STP Andalas University as a center for research, development, assessment and application of innovation in health sector based on triple-helix, as well as a reliable health service center in Indonesia;
- ii. Increased qualities and quantities of health services and innovations in the field of public health; and
- iii. Increased mass production and product commercialization partnerships for innovative products of disease management (including the COVID-19 pandemic).
- c. National Nuclear Energy Agency of Indonesia;
  - i. Increased institutional capacity, human resources, and implementation of innovation and commercialization of STP BATAN
  - ii. Increased dissemination and promotion of the results of researches and innovations in nuclear science and technology for the fields of health, agriculture and food, and industry.
  - iii. Increased strategic partnerships for the use of nuclear science and technology products for the fields of health, agriculture and food, as well as industry supported by technoeconomic studies.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic services

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 172,211,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 14,712,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
Subtotal : US\$ 172,211,000	Subtotal : US\$ 14,712,000
<b>TOTAL : US\$ 186,923,000</b>	



# **Indonesian Institute of Sciences (LIPI)**

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1. <b>Project Title</b>	: <b>Procurement of Multi Purposes Research Vessel</b>
2. <b>Program Title</b>	: Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program
3. <b>Executing Agency</b>	: Indonesian Institute of Sciences (LIPI)
4. <b>Implementing Agency</b>	: Indonesian Institute of Sciences (LIPI)
5. <b>Duration</b>	: 60 months
6. <b>Location</b>	: Domestic and Overseas

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## 7. Objectives

- a. To provide marine research facilities in the form of a multi-functional research vessels fleet consisting of a new multifunctional research vessel and retrofit KR Baruna Jaya VIII; and
- b. To support marine research throughout the Indonesian Exclusive Economic Zone and waters outside Indonesia's jurisdiction, that is expected to have impact in the form of increasing the exploration and exploitation of marine resources both living and non-living, marine tourism and fisheries in a sustainable manner in order to increase the nation's competitiveness.

## 8. Scope of Works

- a. Retrofit KR Baruna Jaya VIII
  - i. repairs to the entire hull and replacement of existing research instruments.
  - ii. maintenance is carried out according to plan
  - iii. class requirements are fulfilled and implemented
- b. Construction of a new ocean research vessels; and
- c. Staff capacity development in management and research utilization of research vessels.

## 9. Outputs

- a. Retrofit KR Baruna Jaya VIII  
Baruna Jaya VIII optimally functions with the latest navigation equipment, machinery and research equipment.
- b. Construction of a new ocean research vessels  
Indonesia has a new multifunctional research vessel that has research capabilities down to the ocean / deep sea and is capable of conducting research throughout the Indonesian EEZ. This research vessel can be utilized by all marine research stakeholders in Indonesia managed by LIPI
- c. Capacity building and strengthening management of research vessels

## 10. Outcomes

- a. Retrofit KR Baruna Jaya VIII
  - i. Extending the life of K / R Baruna Jaya VIII as a vehicle for multi-functional marine research for the next 15-20 years
  - ii. Increasing exploration and discovery of new species, especially marine biota species with high economic potential.
  - iii. Improve data and information on interactions between oceans and the atmosphere to study climate change in order to support efforts to improve food security and mitigate climate change disasters

- iv. Improve the ability to conduct fish stock assessments in waters in the Indian Ocean, Malacca Strait, North Natuna Sea and Java Sea.
- v. Support the acceleration of the EEZ boundary mapping, especially the possibility of adding Extension EEZs based on the United Nations Convention on the Law of the Sea (UNCLOS) convention in the Indian Ocean and North Natuna Sea.
- vi. Providing data and information on fault and megathrust lines and their activities to complement the national earthquake map to mitigate underwater earthquake and tsunami disaster in the Indian Ocean along with potential mineral content with high economic value in the Indian Ocean
- vii. Providing data and information on submarines and their hydrothermal activities and potential and biological diversity
- b. Construction of a new ocean research vessels
  - i. Extending the reach of oceanographic research with the ability of research facilities that can cover the entire Indonesian EEZ area to a depth of 7 000 m
  - ii. Increasing exploration and discovery of new species, especially marine biota species with high economic potential.
  - iii. Improve data and information on interactions between oceans and the atmosphere to study climate change in order to support efforts to improve food security and mitigate climate change disasters
  - iv. Improve the ability to carry out stock assessments of fish, especially deep sea species.
  - v. Support the acceleration of the EEZ boundary mapping especially the possibility of adding Extension EEZs based on the UNCLOS convention
  - vi. Support the acceleration of exploration of marine non-biological resources, especially minerals with high economic value and oil and gas, especially in the deep sea.
  - vii. Providing data and information on fault and megathrust lines and their activities to complete the national earthquake map to mitigate underwater earthquake and tsunami disasters.
  - viii. Providing data and information on submarines along with hydrothermal activities and potential as well as their biodiversity and potential mineral content with high economic value.
  - ix. Improve the ability of research and service quality and dissemination using new multifunctional research vessels.
- c. Capacity building and strengthening management of research vessels
  - i. Increased ability of the crew in guarding and caring for new research vessels and retrofitting the research vessel Baruna Jaya VIII.
  - ii. Increased ability of researchers and technicians to operate research instrumentation tools so they can acquire data according to procedures to obtain optimal data.

## **11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. To increase the number of strategic science and technology infrastructure by building new multipurpose research vessels and retrofit K/R Baruna Jaya VIII
- b. To increase the number of qualified scientists with masters and doctorate qualifications by capacity building program
- c. To create of an innovation ecosystem with qualified human resources and scientists and the availability of research infrastructure in order to increase the nation's ompetitiveness.

## 12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	107,851,000	- Central Government : US\$	2,942,000
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others : US\$	0
Subtotal : US\$	107,851,000	Subtotal : US\$	2,942,000
<b>TOTAL : US\$</b>	<b>110,793,000</b>		

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<b>1. Project Title</b>	<b>: Acquisition of Indonesian Biodiversity as Fundamental Sources for Research and Innovation</b>
<b>2. Program Title</b>	<b>: Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program)</b>
<b>3. Executing Agency</b>	<b>: Indonesian Institute of Sciences</b>
<b>4. Implementing Agency</b>	<b>: Indonesian Institute of Sciences</b>
<b>5. Duration</b>	<b>: 120 months</b>
<b>6. Location</b>	<b>: Indonesia and Overseas</b>

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**7. Objectives**

Improve the sustainable management of biodiversity to strengthen economic development planning and improve the quality of the environment

**8. Scope of Works**

- a. Expedition for the collection and provision of information on Indonesian biodiversity.
- b. Bioprospection in the fields of health, food, energy and the environment.
- c. Physical and digital data extraction.
- d. Infrastructure and capacity building in managing preservation, digitization and mobilization of data and collection of biodiversity.

**9. Outputs**

- a. Indonesian biodiversity information data
- b. Capacity building in managing preservation, digitization and data mobilization and collection of biodiversity
- c. Bioprospection in the fields of health, food, energy and the environment
- d. Ocean Exploration Research Expedition

**10. Outcomes**

- a. Acquisition of genetic information data and its derivatives originating from Indonesia's original biological wealth based on the latest technology
- b. Capacity building in managing preservation, digitization, and data mobilization and collection of biodiversity

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening economic resilience for quality and equitable growth.
- b. Increasing quality and competitive human resources.
- c. Building the environment, enhancing disaster resilience, and climate change.

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	137,932,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	0
Subtotal	: US\$	137,932,000	Subtotal	: US\$	0
<b>TOTAL</b>	<b>: US\$</b>	<b>137,932,000</b>			

# **The Higher Education Quality Strengthening Program**

# **Ministry of Education and Culture**



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<b>1. Project Title</b>	<b>: The Quality Improvement Academic Hospital of Brawijaya University</b>
<b>2. Program Title</b>	<b>: Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program</b>
<b>3. Executing Agency</b>	<b>: Ministry of Education and Culture</b>
<b>4. Implementing Agency</b>	<b>: a. Directorate General of Higher Education, Ministry of Education and Culture b. University of Brawijaya</b>
<b>5. Duration</b>	<b>: 36 months</b>
<b>6. Location</b>	<b>: East Java Province</b>

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## **7. Objectives**

- a. Increase the capacity of the Brawijaya University Hospital by completing its construction. The completion of three buildings of eight floors each, including supporting facilities and infrastructure, will increase capacity for educational, research and service activities to the community.
- b. Increase the capacity of human resources through increasing their competences and adding human resources according to needs.
- c. Increase the capacity of hospital services through the procurement of medical equipment and research support equipment.

## **8. Scope of Works**

- a. Construction of the Brawijaya University Hospital (completed 3 towers).
- b. Construction of the Dental and Oral Hospital (completed 4 floors).
- c. Procurement of goods and equipment for the Dental and Oral Hospital.
- d. Human resource development through training or Non-Degree Training (NDT).
- e. Management and administration activities.

## **9. Outputs**

- a. Increase hospital capacity for educational and research activities.
- b. Increasing the capacity of hospital services.
- c. Increasing the capacity of human resources in the Brawijaya University Hospital.

## **10. Outcomes**

- a. Standardized services can be executed according to its law.
- b. Policy can be implemented.
- c. Facilities and human resources can be executed according to its standards.

## **11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Increasing quality and competitive human resources.
- b. Strengthening political, legal, defense and security stability and transforming public services.

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	39,444,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others	: US\$	4,167,000
Subtotal	: US\$	39,444,000	Subtotal	: US\$	4,167,000
<b>TOTAL</b>	<b>: US\$</b>	<b>43,611,000</b>			

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<b>1. Project Title</b>	<b>: Higher Education for Technology and Innovation Project</b>
<b>2. Program Title</b>	: Improvement of National Capability for Science and Technology Adaption and Innovation Creation Program
<b>3. Executing Agency</b>	: Ministry of Education and Culture
<b>4. Implementing Agency</b>	: a. Directorate General of Higher Education, Ministry of Education and Culture b. Sepuluh Nopember Institute of Technology c. University of Lampung
<b>5. Duration</b>	: 48 months
<b>6. Location</b>	: East Java and Lampung Province

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## 7. Objectives

- a. Improving the quality of university graduates and strengthening market-oriented applied research at the Sepuluh Nopember Institute of Technology and the University of Lampung.
- b. The latest education and research in priority areas are held at the Sepuluh Nopember Institute of Technology.
- c. Strengthening medical education and research capacity at the University of Lampung.

## 8. Scope of Works

- a. The scope of activities proposed at the Sepuluh Nopember Institute of Technology includes:
  - i. Construction of buildings and supporting facilities for the teaching industry (science and techno park)
  - ii. Provision of study and research rooms including their equipment
  - iii. Short training for staff (non degree training), workshops and seminars
  - iv. Research and entrepreneurship grants.
- b. Besides, the scope of activities proposed at the University of Lampung as follows:
  - i. Construction of the Type C teaching hospital.
  - ii. Development of research center.
  - iii. Development of five clusters of applied research and entrepreneurship in the health sector.
  - iv. Staff development for specialist doctors and efficient and modern management of hospitals and health services.
  - v. Strengthening cooperation/partnerships with other hospitals, polytechnics, local governments and industry.
  - vi. Project management.

## 9. Outputs

- a. The expected output of the Sepuluh Nopember Institute of Technology (ITS):
  - i. Increase the capacity of ITS with 4 new and equipped innovation centers, 1 academic building (with classrooms and laboratories), and a cultural and language center
  - ii. At least 10% of ITS students and 30% of ITS staff are involved in applied research and entrepreneurship programs, incubation, training and certification programs in the creative, maritime, robotics and ICT fields, and the automotive industry.

- iii. There are at least 10% of ITS academic staff, cumulatively with technicians, and administrative staff (at least 20% women overall) trained, resulting in increased knowledge in specific areas.
  - iv. There are at least 250 research and entrepreneurship grants awarded to ITS academic staff (at least 20% female overall) in specialized fields.
  - v. At least annually there are 20 ITS-industry partnerships on skills development and research and innovation in specialized fields are established.
- b. The expected output of the University of Lampung:
- i. Construction of State University Hospital
  - ii. Establishment of an integrated research center (IRC)
  - iii. Availability of reliable human resources with competencies as needed
  - iv. The creation of cooperation programs in the development of research and entrepreneurship in the health sector from various disciplines
  - v. The availability of technicians and laboratory assistants who have the skills and research that are in line with the industry
  - vi. The creation of cooperation programs with partners in neighboring hospitals, polytechnics, local governments and the industrial / private sector.

#### 10. Outcomes

- a. The expected outcomes from the construction of the Sepuluh Nopember Institute of Technology are improved aspects of innovation performance, the number of patents per lecturer, the number of citations per lecturer, the performance of community service, and the percentage of graduates who get a job within six months.
- b. The expected outcomes from the construction of the University of Lampung, as follow:
  - i. The implementation of continuous improvement in accessibility and networking with related parties.
  - ii. The creation of better quality, resilient and independent human resources in improving their basic competencies in terms of research and innovation.
  - iii. A wider network of cooperation with other parties.
  - iv. The creation of a better educational process.

#### 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Increasing quality and competitive human resources.
- b. Strengthening political, legal, defense and security stability and transforming public services.

#### 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 79,475,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 13,115,000</li> </ul>
<hr/> Subtotal : US\$ 79,475,000	<hr/> Subtotal : US\$ 13,115,000
<b>TOTAL : US\$ 92,590,000</b>	

**Food Transformation and  
Agricultural Value  
Added Program**

# **Ministry of Agriculture**

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1. Project Title	:	<b>Integrated Corporation of Agricultural Research, Development and Empowennent (I-CARE)</b>
2. Program Title	:	Food Transformation and Agricultural Value-Added Program
3. Executing Agency	:	Ministry of Agriculture
4. Implementing Agency	:	Indonesian Agency for Agricultural Research and Development (IAARD)
5. Duration	:	60 months
6. Location	:	North Sumatera, Lampung, South Sumatera, West Java, Central Java, East Java, South Kalimantan, South East Sulawesi, South Sulawesi, North Sulawesi, East Nusa Tenggara, West Nusa Tenggara, and Papua Provinces.

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## 7. Objectives

To develop innovative, integrative, and collaborative agricultural research and development systems to achieve food security and increase the added value of agricultural products.

## 8. Scope of Works

- a. Developing corporation-and innovation-based agri-food zones
- b. Developing competitive grant agri-food research and development of partnership and collaboration
- c. Improving research capacity
- d. Project management, monitoring, and evaluation

## 9. Outputs

- a. Component A: Developing Corporation and Innovation-based Agri-food Zones;
  - i. Establishment and development of 15 Models of Corporation- and Innovation-based Agricultural Zones for nine main commodities in 11 Provinces;
  - ii. The establishment of 15 Corporation Institutions involving Farmer Economic Institutions (KEP) and other ones in agri-food zone development;
  - iii. Implementation techniques of precision agriculture in corporation- and innovation-based agri-food zones;
  - iv. Improved infrastructure and facilities to support implementation of precision agriculture in 11 provinces;
  - v. Competent researchers, engineers, technicians, laboratory staffs, and extension workers in related technology development and dissemination;
  - vi. Competent field managers and other supporting personnel in agri-food zones management (11 provinces);
  - vii. Skillful and competent farmers in applying related technology in agri-food zones (11 provinces);
  - viii. New and youth agri-preneurs in agri-food zones development (11 provinces).
- b. Component B: Cimpetitive Grant of Agri-food Research and Development Partnership and Collaboration
  - i. Agriculture technology innovation to support agri-food zone development;

- ii. Agriculture technology innovation to be licensed and/or commercialized by industry/business entities to support agri-food zone development;
  - iii. New partnerships in agricultural R&D and business to sustain agricultural zone development and to support agri-corridors.
- c. Component C: Improving Research Capacity
- i. Increased by-research human capital investment in supporting agricultural zones development;
  - ii. Skillful researchers, laboratory technicians, analysts, field technicians, engineers, and other supporting personnel in strengthening agricultural zones development;
  - iii. Improved research management.
  - iv. Improved and empowered Laboratories and Experimental Stations in supporting agricultural zones development;
  - v. Good quality crops from genome editing;
  - vi. Conserved in situ and ex situ agricultural genetic resources, genetic resource management cooperation networks, genomic mapping of genetic resources, and allele mining evaluation of genetic resources;
  - vii. Superior varieties/lines/breed;
  - viii. Quality seeds and products to meet market demand (such as MRL – Maximum Residue Limit for pesticides and heavy metal);
  - ix. Water management based on modern technology innovation (smart irrigation);
  - x. Nano-based technologies/products;
  - xi. Integrated Pest Management;
  - xii. Prototypes of agricultural equipment and machineries;
  - xiii. Supply and value chain management, market intelligence;
  - xiv. Other supporting innovative technologies;
  - xv. Intellectual Property Rights;
  - xvi. Supporting Scientific publications.
- d. Component D: Project Management, Monitoring and Evaluation
- i. Project Operational Manual (POM); including Implementation Guidelines for Component A, B, C and D.
  - ii. Policy analysis and recommendation of agricultural zone development model;
  - iii. Annual Work Plan (AWP);
  - iv. ECOP, Quality Management System Certification of Experimental Stations, and Laboratory Management Accreditation;
  - v. Application of Integrated Information System (Digitalization);
  - vi. Reports of budget and activities management;
  - vii. Monitoring and evaluation reports including baseline and endline surveys;
  - viii. Implementation Completion Report.

## 10. Outcomes

- a. Increased productivity and efficiency of input use and farm efficiency (indicators: production per unit of land, resource use per unit of land and production cost per unit of land);
- b. Increased availability of newly superior varieties/lines and supporting innovative technologies (indicators: number of newly superior varieties/lines and supporting innovative technologies);
- c. Increased technologies implemented by users in agriculture zones (indicators: ratio of implemented technologies to disseminated ones);



- d. Increased added value of agricultural products (indicators: quality of fresh products, number of processed products, market access to the local/national market, number of certified products);
- e. Increased farmer income (indicator: farm household income);
- f. Enhanced corporation- and innovation-based agricultural zones (indicator: number of replicated model).
- g. Increased partnership and collaboration in agricultural research and development (indicator: number of partnership and collaboration).
- h. Increased organizational performance (indicators: increase of competency, number of research activities, and improvement of public services);
- i. Increased capital investment (indicators: number of improved experimental stations and laboratories);
- j. Increased scientific publications (indicators: number of scientific papers published in accredited and globally indexed scientific journals);
- k. Increased services and access of information technology/massive agricultural technology information (indicator: number of disseminated technology information, number of accessed technology information, number of easily accessed technology);
- l. Sustainability of production system in agricultural zone development model (indicators: Sustainability Index on economic, social, culture and environmental dimensions);
- m. Improved policy of agricultural zone development based on corporation and innovation (indicators: number of policy brief/technical guidance);

#### 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Increasing the availability, access, and quality of food consumption;
- b. Increasing added value, employment, and investment in the real sector and industrialization.

#### 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 100,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 35,000,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 100,000,000	<hr/> Subtotal : US\$ 35,000,000
<b>TOTAL : US\$ 135,000,000</b>	

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<b>1. Project Title</b>	: <b>Dry Land Agriculture Development Project</b>
<b>2. Program Title</b>	: Food Transformation and Agricultural Value Added Program
<b>3. Executing Agency</b>	: Ministry of Agriculture
<b>4. Implementing Agency</b>	: a. Agricultural Agency of Research and Development, Ministry of Agriculture; b. Directorate General of Agricultural Infrastructure and Facilities, Ministry of Agriculture; c. Directorate General of Horticulture, Ministry of Agriculture.
<b>5. Duration</b>	: 60 months
<b>6. Location</b>	: North Sumatera, Lampung, Central Java, West Java, North Sulawesi, and East Nusa Tenggara Provinces

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## 7. Objectives

- Developing dryland farming models with export-oriented horticultural commodities integrated with livestock adopting advanced cultivation and post-harvest and value added technologies that could increase productivity, value-added products, and marketing supply chains,
- Developing precision agricultural irrigation infrastructure and conservation techniques on dry land to support the successful development of location-specific and commodity-specific dryland agriculture
- Developing post-harvest management and value added infrastructure and marketing of export-oriented horticultural products.
- Developing institutional capital, markets, cooperatives, and enhancing, the ability of farmers based on corporations, and ensuring the supply chain of horticultural commodity marketing.
- Making recommendations and synthesizing dryland investment policies modelling policies to determine the direction and strategy of dryland development

## 8. Scope of Works

- Preparation of the grand design model of modern dryland agriculture
- Development of precision agricultural irrigation infrastructure and conservation techniques
- Development of postharvest management and value added infrastructure and marketing of export-oriented horticultural products
- Strengthening of horticultural farmer institutions through corporation model based on information technology, and optimizing horticultural commodity supply chain marketing.

## 9. Outputs

- The availability of dry land agriculture model with export-oriented horticultural commodities integrated with livestock adopts advanced cultivation and post-harvest technology that can increase productivity, value added products, and marketing supply chains.
- The availability of precision agricultural irrigation infrastructure and conservation techniques on dry land to support the successful development of location-specific and commodity-specific dry land agriculture
- The availability of postharvest management and value-added infrastructure and marketing of export-oriented horticultural products.

- d. The availability of institutional capital, markets, cooperatives, and improvement, the ability of coordinator-based farmers, as well as guaranteeing the supply chain of horticultural commodity marketing
- e. Recommendations and synthesis of dryland investment policies modelling to determine the direction and strategy of dryland development.

#### 10. Outcomes

- a. The implementation of dryland farming models with export-oriented horticultural commodities integrated with livestock adopts advanced cultivation and post-harvest technology that can increase productivity, product value added, and marketing supply chains,
- b. The utilization of precision agricultural irrigation infrastructure and conservation techniques on dry land to support the successful development of location-specific and commodity-specific dry land agriculture
- c. The utilization of postharvest management and value-added infrastructure and marketing of export-oriented horticultural products
- d. The strengthening of farmers institutional through corporation model , and guaranteeing the supply chain of horticultural commodity marketing
- e. The recommendations and synthesis of dryland investment policies modelling to determine the direction and strategy of dryland development.

#### 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening economic resilience for quality and equitable growth
- b. Developing areas to Reduce Inequality
- c. Increasing Quality of Human Resources and Competitiveness
- d. Strengthening infrastructure to support basic economic development and services
- e. Building the environment, enhancing disaster resilience and climate change

#### 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 125,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 35,000,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 125,000,000	<hr/> Subtotal : US\$ 35,000,000
<b>TOTAL : US\$ 160,000,000</b>	

# Village Development Program

**Ministry of Village, Development  
of Disadvantaged Regions and  
Transmigration**

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<b>1. Project Title</b>	: <b>Enhancing BUM Desa Capacity and Infrastructure for The Digitalization of Villages Economic</b>
<b>2. Program Title</b>	: Village Development Program
<b>3. Executing Agency</b>	: Ministry of Village, Development of Disadvantaged Regions and Transmigration
<b>4. Implementing Agency</b>	: Directorate General of Development and Village Community Empowerment, Ministry of Village, Development of Disadvantaged Region, and Transmigration.
<b>5. Duration</b>	: 48 months
<b>6. Location</b>	: Nationwide

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## 7. Objectives

- a. To strengthen of BUM Desa/BUM Desa Bersama digitally;
- b. To enhance the capacity of BUM Desa/BUM Desa Bersama in developing sustainable village economic activities;
- c. To improve the connectivity of village economy with regional and global market using digital platform.

## 8. Scope of Works

- a. Strengthening the capacity of BUM Desa/ BUM Desa Bersama in the form of information technology infrastructure and system, which includes:
  - i. Data center (including mechanical and electrical system).
  - ii. Network system
  - iii. Server and storage system.
  - iv. Application systems for registration, accreditation, and reporting.
  - v. Application to provide services and facilitation to strengthen BUM Desa/BUM Desa Bersama.
  - vi. Digital modules for BUM Desa/BUM Desa Bersama capacity building.
  - vii. Knowledge management system of BUM Desa/BUM Desa Bersama.
- b. Developing a model for the strengthening of BUM Desa/ BUM Desa Bersama through:
  - i. Provision of facilities and production equipment to increase value-added.
  - ii. Business incubators assistance in supply chain management, quality improvement, productivity, and market access.
- c. Improving the capacity of the stakeholders through knowledge dissemination, training, comparative studies, and workshops.

## 9. Outputs

- a. Establishment of information technology system and infrastructure.
- b. Assessment of capacity building and business development for BUM Desa/BUM Desa Bersama.
- c. Availability of facilities and production equipment to increase value-added.
- d. Delivery of assistance in the form of business incubators in supply chain management, quality improvement, productivity, and market access.
- e. Dissemination of knowledge, training, comparative studies, and workshops across all levels of government (central government, province, district, and village level).

- f. Improved products of BUM Desa/ BUM Desa Bersama that meet the international market standards.

#### 10. Outcomes

- a. Enhanced BUM Desa/BUM Desa Bersama.
- b. Improved management capacity and business activities of BUM Desa/BUM Desa Bersama.
- c. Connected BUM Desa/BUM Desa Bersama's business activities with a digital-based economic system.
- d. Increased roles of BUM Desa/BUM Desa Bersama as an engine of the village economy.

#### 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Economic resilience for quality and equitable growth
- b. Regional development for inequality reduction
- c. Qualified and competitive human resources
- d. Infrastructure for the economy and basic services

#### 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 76,345,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 4,272,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 76,345,000	<hr/> Subtotal : US\$ 4,272,000
<b>TOTAL : US\$ 80,617,000</b>	

# **State Apparatus Enhancement Program**



**Ministry of National Development  
Planning/ National Development  
Planning Agency**

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1. **Project Title** : **Strengthening Management of Apparatus Talents (SMART)**
  2. **Program Title** : State Apparatus Enhancement Program
  3. **Executing Agency** : Ministry of National Development Planning/ National Development Planning Agency
  4. **Implementing Agency** : Ministry of National Development Planning/ National Development Planning Agency
  5. **Duration** : 84 months
  6. **Location** : Nationwide and overseas
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## 7. Objectives

To increase the capacity of Indonesia human resources with the support of talent management system development, implementation of capacity building programs for apparatus to encourage the achievement of national development priorities

## 8. Scope of Works

- a. Strategic talent management
- b. State apparatus and human resources professionalization
- c. Capacity development of domestic education and training institutions
- d. Project management

## 9. Outputs

- a. Talent management system for apparatus
- b. Professional apparatus
- c. Domestic education and training institutions capacity enhancement

## 10. Outcomes

The availability of policies and public services to support good governance and competitiveness focusing on national development priorities

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Enhancing human resources quality and competitiveness
- b. Strengthening policies, laws, defense and security stability and public services transformation

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 100,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 1,250,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others (RM) : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 100,000,000	<hr/> Subtotal : US\$ 1,250,000
<b>TOTAL : US\$ 101,250,000</b>	

# **Vocational Training Enhancement Program**

# Ministry of Manpower

- 
1. **Project Title** : **Development of Vocational Training Centers**
  2. **Program Title** : Vocational Training Enhancement Program
  3. **Executing Agency** : Ministry of Manpower
  4. **Implementing Agency** : Directorate General of Training and Productivity, Ministry of Manpower
  5. **Duration** : 48 months
  6. **Location** :
    - a. BLK Banyuwangi, East Java Province
    - b. BLK Batam, Riau Island Province
    - c. BLK Makassar, South Sulawesi Province
- 

**7. Objectives**

To prepare skilled and competent workforce

**8. Scope of Works**

- a. Development of training programs and curricula
- b. Procurement of training equipment
- c. Construction of workshop building infrastructure
- d. Training of Trainers (ToT)
- e. Development of governance/training management

**9. Outputs**

- a. Availability of training programs, curricula, and technical assistance for automotive, electrical, metal, wood-glass fiber, welding, tourism, and digitalized e-education.
- b. Availability of training equipments for any training program.
- c. Establishment of workshop buildings for any training program.
- d. Implementation of Training of Trainer (ToT) for any training program.
- e. Preparation of the equipment procurement evaluation report, building construction evaluation report, instructor training evaluation report, and program development evaluation report, module and management training.

**10. Outcomes**

- a. Improving training quality
- b. Increasing qualified and competence workers
- c. Increasing the competitiveness of Indonesia's human resources
- d. Decreasing the unemployment rate
- e. Improving socio-economic

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Upgrading human resource qualification and competitiveness

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	40,400,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others (RM)	: US\$	0
Subtotal	: US\$	40,400,000	Subtotal	: US\$	0
<b>TOTAL</b>	<b>: US\$</b>	<b>40,400,000</b>			

# **Geospatial Information Management Program**

# **Geospatial Information Agency (BIG)**



- 
- |                               |  |
|-------------------------------|--|
| <b>1. Project Title</b>       | <b>: Program to Accelerate the Provision of Large-Scale Base Maps (1:5.000) for Sustainable National Development</b> |
| <b>2. Program Title</b>       | <b>: Geospatial Information Management Program</b>   |
| <b>3. Executing Agency</b>    | <b>: Geospatial Information Agency (BIG)</b>   |
| <b>4. Implementing Agency</b> | <b>: Geospatial Information Agency (BIG)</b>   |
| <b>5. Duration</b>            | <b>: 60 months</b>   |
| <b>6. Location</b>            | <b>: Nationwide</b>  |
- 

## 7. Objectives

This program aims to accelerate the provision of the large-scale basemaps (1:5.000) for supporting sustainable national development in Indonesia. Large-scale basemaps will be used for the thematic map reference by various sectors for decision-making tools based on geospatial information. Specific objectives of this program including:

- a. Availability of the additional capacity for the mapping production,
- b. Availability of the geospatial data to produce the countrywide three dimensional (3D) geospatial information, and
- c. Availability of the countrywide 3D geospatial information.

## 8. Scope of Works

Working scope of this program is planned for 5 years of implementation and described as follows:

- a. Component 1 – Establishment of integrated geospatial data production system
- b. Component 2 – Acquisition and production of large-scale geospatial data
- c. Component 3 – Capacity building
- d. Component 4 – Management project and monitoring

## 9. Outputs

- a. Component 1 – Establishment of integrated geospatial data production system, consisting of several sub-components, as follows:
  - i. Green data center
  - ii. Environment for i) geospatial reference processing system, ii) Processing geospatial data (raw data) including Airborne SAR, photogrammetry, LiDAR, and satellite imagery data, iii) 3D Information Geospatial Production System (Basemap), iv) Publication System, v) Development System, and vi) Backup and Recovery System.
- b. Component 2 – Acquisition and production of large-scale geospatial data (1:5.000) of the entire country of Indonesia, consists of several sub-components, as follows;
  - i. Component 2.1 - Acquisition of geospatial data of 1:5.000 scale. The output from this sub-component are:
    - SAR (Synthetic Aperture Radar) data acquisition of Indonesian countrywide of approx. 1.892.000 sq.km including the acquisition of ancillary data to produce geospatial information of 1:5.000 scale.
    - LIDAR bathymetric data acquisition along Indonesian coastline (highest, mean, lowest sea water level) of approx. 108.000 km.

- c. Component 2.2 - Production of geospatial information of 1:5.000 scale. The output from this sub-component are:
  - i. Countrywide of 3D geospatial information (1:5.000), consists of the following layers: hypsography, coastline (highest, mean, lowest sea water level), hydrography, transportations, and land cover.
  - ii. Non-forestry area (approx. 660.000 sq.km) of 3D geospatial information (1:5.000), consists of the following layers: buildings, utilities, public facilities, and geographical names.
- d. Component 2.3 - Production of geospatial information of 1:25.000 Scale and 1:250.000 scale. The output from this sub-component are:
  - i. Generalization of countrywide 3D geospatial information of 1:25.000 scale
  - ii. Generalization of countrywide 3D geospatial information of 1:250.000 scale
- e. Component 3 – Capacity building. The output from this component described as follow:
  - i. Capacity building for BIG’s personnel based on the level of project management Train for trainer for project implementation
- f. Component 4 – Management project and monitoring. The output from this component including report on i) the project organisation and job description, ii) the project implementation, iii) monitoring, supervision, and evaluation, and iv) data quality

## 10. Outcomes

- a. This program provides the countrywide large-scale basemaps (scale 1:5.000) that supports the national development including: i) Online Single Submission (OSS) implementation, ii) Thematic-Holistic-Integrative-Spatial (THIS) development approach and iii) integration of geospatial information and statistics as the primary data in achieving sustainable development goals (SDGs).
- b. By the provision of countrywide large-scale base maps, Ministries/ Institutions/Agencies and Local Government will be able to generate large-scale thematic maps by referring to the same basemaps to avoid overlapping data. Thus, realized the One Map Policy.
- c. Countrywide large-scale basemaps provision encourages the increase of national economic growth through the utilization of geospatial information (large-scale basemaps) in various sectors.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Developing regions for reducing disparity and ensuring equality
- b. Building the environment, enhancing disaster resilience and climate change.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 351,885,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 52,783,000</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others (RM) : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 351,885,000	<hr/> Subtotal : US\$ 52,783,000
<b>TOTAL : US\$ 404,668,000</b>	

**Security and Safety  
Program in Indonesian  
Waters and Indonesian  
Jurisdictions**

# **Indonesia Coast Guard (BAKAMLA RI)**

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1. <b>Project Title</b>	: <b>National Maritime Security System</b>
2. <b>Program Title</b>	: Security and Safety Program in Indonesian Waters and Indonesian Jurisdictions
3. <b>Executing Agency</b>	: Indonesia Coast Guard (BAKAMLA RI)
4. <b>Implementing Agency</b>	: Indonesia Coast Guard (BAKAMLA RI)
5. <b>Duration</b>	: 60 months
6. <b>Location</b>	: Indonesia

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**7. Objectives**

- a. To integrate the national maritime early warning system among related maritime security stakeholders;
- b. To strengthen coordination among related maritime security stakeholders;
- c. To enhance the efficiency and effectiveness of law enforcement in Indonesian Waters and Indonesian Jurisdictions.

**8. Scope of Works**

- a. Site assessment and system design
- b. Implementation and testing
- c. Training
- d. Project reporting and documentation
- e. Maintenance and support

**9. Outputs**

- a. 1 package of primary command and control center
- b. 1 package of back up command and control center
- c. 1 package of data protection system (disaster recovery)
- d. 35 packages of coastal stations
- e. 1 package of vessel command center

**10. Outcomes**

- a. Decrease number of violations of law within Indonesian waters and Indonesian Jurisdictions
- b. Decrease number of vessel accidents within Indonesian waters and Indonesian Jurisdictions
- c. Shorten relay time of valid information regarding violations of law/accidents at sea to closest related maritime security stakeholder's vessel
- d. Shorten response time of closest related maritime security stakeholder's vessel to conduct law enforcement.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Strengthening the stability of political, legal, defense, security and transforming in public services.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 180,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others (RM) : US\$ 0</li> </ul>
Subtotal : US\$ 180,000,000	Subtotal : US\$ 0
<b>TOTAL : US\$ 180,000,000</b>	

**Strengthening the  
Capacity of Meteorology,  
Climatology, and  
Geophysics Program**

**The Agency For Meteorology  
Climatology And Geophysics  
(BMKG)**



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1. Project Title	: <b>Strengthening Flight Information Region and Development of Aviation Meteorology Services in Eastern Indonesia</b>
2. Program Title	: Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program
3. Executing Agency	: Meteorology Climatology And Geophysics Agency (BMKG)
4. Implementing Agency	: Meteorology Climatology And Geophysics Agency (BMKG)
5. Duration	: 36 months
6. Location	: Nationwide

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## 7. Objectives

To strengthen Flight Information Region (FIR) and to develop aviation meteorological services especially in Eastern Indonesia, for the sake of safety and security in aviation operations, as well as modernization of the ability to observe and forecast volcanic ash in order to prevent accidents and to reduce the impact of volcanic eruptions towards the national economy.

## 8. Scope of Works

- a. Automated Weather Observing System (AWOS) for 6 airports in Indonesia
- b. X-Band Windshear Weather Radar as TDWR for 7 airports in Indonesia
- c. Windshear Wind LIDAR for 7 airports in Indonesia
- d. LIDAR Volcanic Ash 3D for 5 airports in Indonesia
- e. National Integration System
- f. National Volcanic Ash Advisory System
- g. Capacity building:

## 9. Outputs

- a. Increasing the capacity of weather observations at several airports, especially in strengthening the FIR of Indonesia and Eastern Indonesia.
  - i. Installation of AWOS Category III at six (6) airports, urban air quality monitoring systems and networks.
- b. Construction of the X-band Weather Radar Doppler Terminal which is equipped with a windshear warning feature on 7 (seven) aerodromes to close the radar network.
  - i. Composite image of real-time radar data.
  - ii. Windshear warning feature.
  - iii. Supports local integration of aviation equipment.
- c. The construction of the LIDAR windshear that is tailored to the needs of each airport with integrated automatic warning software, this system will be integrated with the instruments mentioned in point b if installed at the same airport location
  - i. Windshear systems based on modern LIDAR technology at seven (7) airports.
  - ii. Terminal Doppler Weather based weather radar windshear warnings are integrated into the AWOS system.
- d. Construction of Volcanic Ash Lidar 3D on five (5) airports.
- e. Development of the National Volcanic Ash Advisory System for predicting and warning of the presence of volcanic ash in the atmosphere for the needs of air operators and users.
- f. Development of a national integration system to monitor meteorological observation networks nationally and locally at each airports.

- i. Monitoring aviation meteorological observation networks.
  - ii. AWOS integration and Remote data from head office / regional.
  - iii. Local integration of Aviation Meteorological Instruments on seven (7) airport for monitoring and maintenance efficiency.
- g. Enhancing BMKG's ability to operate and maintain the system in the long run by conducting qualified staff training and at the same time increasing BMKG's ability to work at an international level

**10. Outcomes**

- a. The creation of safe, efficient and regular flights throughout the territory of the Republic of Indonesia.
- b. The realization of air transportation that supports the national development program and supports the progress of the national economic program.
- c. The realization of equality and social justice in the entire territory of the Republic of Indonesia.
- d. Indonesia has full authority over aviation meteorological services in the area of the country and has the capacity as a country recognized by international civil aviation organizations and the world meteorological organizations.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Developing the environment, enhancing disaster resilience and climate change

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 26,617,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others (RM) : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 26,617,000	<hr/> Subtotal : US\$ 0
<b>TOTAL : US\$ 26,617,000</b>	

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<b>1. Project Title</b>	: <b>Enhancing National Climate And Air Quality Services</b>
<b>2. Program Title</b>	: Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program
<b>3. Executing Agency</b>	: Meteorology Climatology And Geophysics Agency (BMKG)
<b>4. Implementing Agency</b>	: Meteorology Climatology And Geophysics Agency (BMKG)
<b>5. Duration</b>	: 36 months
<b>6. Location</b>	: Headquarter of BMKG UPT BMKG Remote Station

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## 7. Objectives

To strengthen climate information and air quality services, including the observation system improvement, instrument calibration system, data and information processing system, and dissemination information system that meet stakeholders expectation (Government, Private Sector and Public Community).

## 8. Scope of Works

The strengthening program of climate and air quality information service consists of 4 components. These components describe the implementation strategy to achieve the expected goals. Each component is supported by the following subcomponents:

- a. Component 1: Strengthening the climate observation system and air quality. This component has 5 (five) sub-components, namely:
  - i. Rehabilitation and expansion of the climate observation network
  - ii. Rehabilitation and expansion of urban air quality monitoring networks
  - iii. Strengthening the observation of GAW Stations of Palu and Sorong
  - iv. Strengthening of Climate and Air Quality Laboratory of UPT Climatology
  - v. Strengthening the BMKG Air Quality Testing Laboratory
- b. Component 2: Strengthening the system of calibration, communication and data integration. This component has 4 (four) sub-components, namely:
  - i. Procurement of ASRS Calibration equipment
  - ii. Procurement of AWS standard traveling equipment
  - iii. Development of climate and air quality repository data at the Central and regional levels
  - iv. Strengthening data integration systems: UPT Climatology and Database Center
- c. Component 3: Strengthening data processing and dissemination systems. This component has 4 (four) sub-components, namely: :
  - i. Strengthening data processing systems
  - ii. Strengthening of climate analysis and prediction systems
  - iii. Strengthening the climate projection system
  - iv. Strengthening information dissemination system
- d. Component 4: Strengthening human climate and air quality. This component has 3 (three) sub-components, namely:
  - i. Development of Climate Knowledge Management
  - ii. Training and learning assignments in the field of climatology and air Quality
  - iii. Innovation development to support the operation of climate services and air quality.

## 9. Outputs

- a. Climate observation system and networks in the province of food granaries
- b. Urban air quality monitoring systems and networks.
- c. ASRS and AWS Calibration Systems
- d. HPC to carry out climate analysis and prediction, air quality and climate projections
- e. Processing and Dissemination System for climate information and air quality based on technology 4.0 and 5.0.
- f. Competent and professional human resources in climatology and air quality fields.

## 10. Outcomes

- a. Climate information and air quality services that are fast, accurate and according standard WMO.
- b. Climate information and air quality those are qualified to support food security, water resilience, renewable energy and disaster risk reduction.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Developing the environment, enhancing disaster resilience and climate change.

## 12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	50,000,000	- Central Government : US\$	0
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	0
		- Others (RM) : US\$	0
Subtotal : US\$	50,000,000	Subtotal : US\$	0
<b>TOTAL : US\$</b>	<b>50,000,000</b>		

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<b>1. Project Title</b>	<b>: Enhancement of Indonesian Weather Radar Network for Extreme Weather Warning Capabilities</b>
<b>2. Program Title</b>	<b>: Strengthening the Capacity of Meteorology, Climatology, and Geophysics Program</b>
<b>3. Executing Agency</b>	<b>: Meteorology Climatology And Geophysics Agency (BMKG)</b>
<b>4. Implementing Agency</b>	<b>: Deputy of Meteorology, Meteorology Climatology And Geophysics Agency (BMKG)</b>
<b>5. Duration</b>	<b>: 36 months</b>
<b>6. Location</b>	<b>: DKI Jakarta Province Tangerang, Banten Province Sidoarjo, East Java Province Aceh Besar, Aceh Province Cilacap, Central Java Province Buru, Maluku Province Berau, East Kalimantan Province Banggai, Tolitoli, and Poso; Central Sulawesi Province Halmahera Selatan, North Maluku Province Maluku Tengah, Maluku Province Fakfak, West Papua Province Boven Digoel, Papua Province</b>

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**7. Objectives**

Building a Weather Radar to meet the needs of radar data to complement the early warning system in Indonesia, including replacement to the existing Weather Radar due to the device has operated more than 12 years. Through this activity, it is expected to meet the need for better quality of weather radar data to increase the accuracy, coverage and speed of weather early warning throughout Indonesia regions

**8. Scope of Works**

- a. Weather radar procurement and installation
- b. Procurement of weather radar data integration system and extreme weather warning

**9. Outputs**

- a. Weather Radar Data in an international standard format
- b. National composite weather radar information and convenient access
- c. Weather early warning information system.

**10. Outcomes**

- a. Increasing the density and coverage of weather radar network in Indonesia
- b. Enhanced capacity and quality of weather early warning
- c. Timely, accurate and easy to access weather early warning information.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening the infrastructure for supporting economic development and basic needs
- b. Building living environment, increasing disaster resilience and climate change.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 34,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others (RM) : US\$ 0</li> </ul>
Subtotal : US\$ 34,000,000	Subtotal : US\$ 0
<b>TOTAL : US\$ 34,000,000</b>	

# **Enhancement of Search and Rescue Facility Program**

# **National Search and Rescue Agency (BASARNAS)**



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<b>1. Project Title</b>	<b>: Procurement of Search and Rescue Helicopter Medium Class</b>
<b>2. Program Title</b>	: Enhancement of Search and Rescue Facility Program
<b>3. Executing Agency</b>	: National Search and Rescue Agency (BASARNAS)
<b>4. Implementing Agency</b>	: National Search and Rescue Agency (BASARNAS)
<b>5. Duration</b>	: 24 months
<b>6. Location</b>	: DKI Jakarta Province

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**7. Objectives**

- a. To support search and rescue operations, the helicopters have the ability to:
  - i. Fly over rough terrains, mountainous and high-altitude areas, and vast water areas;
  - ii. Transport personnel and limited search and rescue equipment;
  - iii. Conduct medical evacuation;
  - iv. Conduct visual and electronic search;
  - v. Perform helicopter rescue techniques.
- b. To improve response time in search and rescue operation.

**8. Scope of Works**

- a. Procurement of 3 (three) medium class search and rescue helicopters including maintenance support and spare parts provision.
- b. Training to improve capabilities in aircraft operation and maintenance, as follows:
  - i. Pilot type rating;
  - ii. Airframe mechanic;
  - iii. Engine technician;
  - iv. Avionic technician.

**9. Outputs**

- a. Availability of 3 (three) helicopters that capable of supporting search and rescue activities;
- b. The availability of reliable helicopter crew.

**10. Outcomes**

- a. The increased reliability of BASARNAS air search and rescue facilities;
- b. Extending the range of search and rescue operations;
- c. The increased ability of BASARNAS to serve people who need search and rescue services.

**11. Development Agenda of the National Development in RPJMN 2020-2024**

- a. Strengthening infrastructure to support economic development and basic services
- b. Build the environment, improve disaster resilience and climate change.

## 12. Project Cost

• Foreign Funding			• Counterpart Funding		
- Loan	: US\$	69,564,000	- Central Government	: US\$	12,276,000
			- Regional Government	: US\$	0
- Grant	: US\$	0	- State-Owned Enterprise	: US\$	0
			- Others (RM)	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	69,564,000	Subtotal	: US\$	12,276,000
<hr/>			<hr/>		
<b>TOTAL</b>		<b>: US\$ 81,840,000</b>			

# **Electricity Infrastructure Development Program**

# **State Electricity Company (PT.PLN)**

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<b>1. Project Title</b>	<b>: Upper Cisokan Pumped Storage Power Plant (4 x 260 MW)</b>
<b>2. Program Title</b>	: Electricity Infrastructure Development Program
<b>3. Executing Agency</b>	: State Electricity Company (PT.PLN)
<b>4. Implementing Agency</b>	: State Electricity Company (PT.PLN)
<b>5. Duration</b>	: 50 months
<b>6. Location</b>	: West Bandung & Cianjur Districts, West Java Province

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**7. Objectives**

The expected result is an additional supply of power to the electricity system in Java-Bali and contributing the supply of renewable energy to reach national target of 23% renewable energy in 2025. In addition, it can improve load factor and increase the capacity factor of coal power plant, and also can act as a flexible generation to anticipate the entry of intermittent renewable energy plants such as solar and wind power plant.

**8. Scope of Works**

Construction of Upper Cisokan Pumped Storage Hydroelectric Power Plant with 4x260 MW capacity and related 500 kV transmission line and substation including construction / physical construction, construction supervision / management, and commissioning.

**9. Outputs**

- a. Hydroelectric power plant pumped storage type with 4x260 MW capacity
- b. 500 kV transmission line Cisokan-Incomer (Cibinong-Saguling), 2 lines
- c. Power plant substation 500 kV

**10. Outcomes**

- a. Additional power supply to the Java-Bali electricity system
- b. Contributions to the fulfillment of an average demand growth of 7.9%
- c. Increased supply of renewable energy sources in the Java-Bali system in 2025
- d. Improving the system load factor
- e. Improvement of capacity factor for base load plants (coal power plant)
- f. Flexible generation to anticipate the entry of intermittent renewable energy generators (Solar/Wind Power Plant).
- g. Increase the energy storage capacity
- h. Increased reliability and stability of the Java-Bali system

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Strengthening infrastructure to support economic development and basic services.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 650,000,000</li> <li>- Grant : US\$ 0</li> </ul> <hr/>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 260,000,000</li> <li>- Others (RM) : US\$ 0</li> </ul> <hr/>
Subtotal : US\$ 650,000,000	Subtotal : US\$ 260,000,000
<b>TOTAL : US\$ 910,000,000</b>	

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<b>1. Project Title</b>	: <b>Additional Loan PLTA Asahan 3(2 x 87 MW)</b>
<b>2. Program Title</b>	: Electricity Infrastructure Development Program
<b>3. Executing Agency</b>	: State Electricity Company (PT.PLN)
<b>4. Implementing Agency</b>	: State Electricity Company (PT.PLN)
<b>5. Duration</b>	: 50 months
<b>6. Location</b>	: Asahan & Toba Samosir District, North Sumatera Province

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**7. Objectives**

The expected result is an additional supply of power to the sub-system in North Sumatera and contribution to the supply of renewable energy in the generation system in Sumatera.

**8. Scope of Works**

Continuation of the construction of the Asahan No.3 Hydroelectric Power Plant Construction Project with a capacity of 174 MW, 150 kV Transmission Line to related substations

**9. Outputs**

- a. Hydroelectric power plant run-off river type with a capacity of 174 MW
- b. Asahan 3 HEPP - Simangkok Substation 150 kV Transmission Line 59,89 kms

**10. Outcomes**

- a. Additional power supply to the North Sumatera Province
- b. Contributions to the fulfillment of an average demand growth of 7.9%
- c. Increased reliability in the Sumatera electricity system
- d. Decreased plant production costs in the Sumatera system
- e. Increased supply of renewable energy sources in the Sumatera generation system in 2023 by 22.3%

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Strengthening infrastructure to support economic development and basic services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> </ul>			<ul style="list-style-type: none"> <li>• Counterpart Funding</li> </ul>		
- Loan	: US\$	152,318,000	- Central Government	: US\$	0
- Grant	: US\$	0	- Regional Government	: US\$	0
			- State-Owned Enterprise	: US\$	0
			- Others (RM)	: US\$	0
<hr/>			<hr/>		
Subtotal	: US\$	152,318,000	Subtotal	: US\$	0
<b>TOTAL</b>		<b>: US\$ 152,318,000</b>			

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1. **Project Title** : **Matenggeng Pumped Storage Hydro Electrical Power Plant (943 MW)**
  2. **Program Title** : Electricity Infrastructure Development Program
  3. **Executing Agency** : State Electricity Company (PT.PLN)
  4. **Implementing Agency** : State Electricity Company (PT.PLN)
  5. **Duration** : 72 months
  6. **Location** : Cilacap Regency, Central Jawa Province  
Kuningan Regency, West Jawa Province
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## 7. Objectives

The expected result is an additional supply of power to the electricity system in Java-Bali and contributing the supply of renewable energy to reach nasional target of 23% renewable energy in 2025. In addition, it can improve load factor and increase the capacity factor of coal power plant, and also can act as a flexible generation to anticipate the entry of intermittent renewable energy plants such as solar and wind power plant..

## 8. Scope of Works

- a. Construction of Matenggeng Pumped Storage
- b. Engineering services for construction supervision
- c. Power plant commisioning and operation.

## 9. Outputs

- a. Pumped storage type hydroelectric power plant with a capacity of 943 MW
- b. 500 kV transmission line consisting of 2 lines, each with a length of 28.4 kmr and 28.3 kmr
- c. Power station substation 500 kV

## 10. Outcomes

- a. Additional power supply to the Java-Bali electricity system
- b. Contribution to the average demand growth of 7.9%
- c. Increased supply of renewable energy sources in the Java-Bali system in 2025
- d. Improved system load factor
- e. Improvement of capacity factor for base load power plants,
- f. Flexible generation to anticipate the entry of intermittent renewable energy generators (Solar/Wind Power Plant)
- g. Increase energy storage capacity
- h. Increased reliability and stability of the Java-Bali system

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic services.



## 12. Project Cost

• Foreign Funding		• Counterpart Funding	
- Loan : US\$	826,900,000	- Central Government : US\$	0
- Grant : US\$	0	- Regional Government : US\$	0
		- State-Owned Enterprise : US\$	214,000,000
		- Others (RM) : US\$	0
Subtotal : US\$	826,900,000	Subtotal : US\$	214,000,000
<b>TOTAL : US\$ 1,040,900,000</b>			

1. <b>Project Title</b>	: <b>Additional Loan PLTA Peusangan 1. &amp; 2 Hydroelectric Power (87 MW)</b>
2. <b>Program Title</b>	: Electricity Infrastructure Development Program
3. <b>Executing Agency</b>	: State Electricity Company (PT.PLN)
4. <b>Implementing Agency</b>	: State Electricity Company (PT.PLN)
5. <b>Duration</b>	: 26 months
6. <b>Location</b>	: Aceh Tengah District, Aceh Province

## 7. Objectives

The expected result is an additional supply of power to the sub-system in Aceh and contribution to the supply of renewable energy in the generation system in Sumatera.

## 8. Scope of Works

Continuation of the construction of the Peusangan Hydroelectric Power Plant with a capacity of 87 MW, 150 kV Transmission Line, and related substations, including construction / physical construction, construction supervision / management, and commissioning.

## 9. Outputs

- Hydroelectric power plant run-off river type with a capacity of 87 MW
- 150 kV transmission line Takengon – Bireun, 73.47 kms
- Takengon 150 kV substation
- 20 kV distribution line in Takengon, Central Aceh and surrounding areas

## 10. Outcomes

- Additional power supply to the Aceh Province
- Contributed to the fulfillment of an average demand growth of 7.9%
- Increased reliability in the Sumatera system
- Increased supply of renewable energy sources in the Sumatera generation system in 2022 by 24.9%

## 11. Development Agenda of the National Development in RPJMN 2020-2024

Strengthening infrastructure to support economic development and basic services.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 131,045,000</li> <li>- Grant : US\$ 0</li> <li><hr/></li> <li>Subtotal : US\$ 131,045,000</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 8,987,000</li> <li>- Others (RM) : US\$ 0</li> <li><hr/></li> <li>Subtotal : US\$ 8,987,000</li> </ul>
<b>TOTAL : US\$ 140,032,000</b>	

- 1. **Project Title** : **Hululais Geothermal Power Plant 1&2 (2x55 MW)**
- 2. **Program Title** : Electricity Infrastructure Development Program
- 3. **Executing Agency** : State Electricity Company (PT.PLN)
- 4. **Implementing Agency** : State Electricity Company (PT.PLN)
- 5. **Duration** : 36 months
- 6. **Location** : Lebong, Rejang Lebong and Kepahiang Regency, Bengkulu Province

**7. Objectives**

The expected result is an additional supply of power to system in Sumatera and contribution to the supply of renewable energy in the reliability of grid system in Sumatera.

**8. Scope of Works**

Construction of the Hululais Geothermal Power Plant with a capacity of 110 MW, 150 kV transmission line 150, and related substations.

**9. Outputs**

- a. Geothermal power plant Flash Cycle type with a capacity of 110 MW
- b. PLTP Hululais - Pekalongan Substation 150 kV transmission line, 47 kms
- c. Extension of 150 kV Pekalongan Substation

**10. Outcomes**

- a. Additional power supply to the system in Sumatera
- b. Contributions to the fulfillment of an average demand growth of 7.9%
- c. Increased supply of renewable energy sources in the Sumatera generation system in 2024 by 34.3%

**11. Development Agenda of the National Development in RPJMN 2020-2024**

Strengthening infrastructure to support economic development and basic services.

**12. Project Cost**

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 204,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 42,000,000</li> <li>- Others (RM) : US\$ 0</li> </ul>
<hr/> Subtotal : US\$ 204,000,000	<hr/> Subtotal : US\$ 42,000,000
<b>TOTAL : US\$ 246,000,000</b>	

# **Green Finance Facility Program**

# **Sarana Multi Infrastruktur Company (PT.SMI)**

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1. **Project Title** : **SDG Indonesia One – Green Finance Facility (SIO-GFF)**
  2. **Program Title** : Green Finance Facility Program
  3. **Executing Agency** : Sarana Multi Infrastruktur Company (PT.SMI)
  4. **Implementing Agency** : Sarana Multi Infrastruktur Company (PT.SMI)
  5. **Duration** : 48 months
  6. **Location** : Scattered locations in Indonesia
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## 7. Objectives

- a. Developing the project pipelines: assisting in the preparation of bankable green infrastructure project pipelines;
- b. Increasing green economic impact by reducing risks in green projects;
- c. Implementing the state commitments in supporting the achievement of green and sustainable development: assisting countries in achieving commitments to the SDGs and the Paris Agreement by increasing the reduction of greenhouse gas emissions;
- d. Green project loan facilities: provide loan facilities to green infrastructure project developers;
- e. Leveraging private capital: using a de-risking approach to reduce the burden on the Government in financing long-term projects.

## 8. Scope of Works

- a. Development of a green financial facility, SIO-GFF, with its financing products, principles, conditions and funds; and
- b. Strengthening the capacity at PT SMI to initiate, to structure, to report, and to monitor SDG and green projects

## 9. Outputs

- a. Funding for green infrastructure projects and SDGs:
- b. The establishment of financing facilities to build green infrastructure projects and SDGs including COVID-19 recovery program.

## 10. Outcomes

The development of innovative financing schemes, especially with the blended finance scheme.

## 11. Development Agenda of the National Development in RPJMN 2020-2024

- a. Strengthening infrastructure to support economic development and basic services
- b. Build the environment, increase disaster resilience and climate change.

## 12. Project Cost

<ul style="list-style-type: none"> <li>• Foreign Funding</li> <li>- Loan : US\$ 150,000,000</li> <li>- Grant : US\$ 0</li> </ul>	<ul style="list-style-type: none"> <li>• Counterpart Funding</li> <li>- Central Government : US\$ 0</li> <li>- Regional Government : US\$ 0</li> <li>- State-Owned Enterprise : US\$ 0</li> <li>- Others (RM) : US\$ 267,363,000</li> </ul>
<hr/> Subtotal : US\$ 150,000,000	<hr/> Subtotal : US\$ 267,363,000
<b>TOTAL : US\$ 417,363,000</b>	

**Ministry Of National Development Planning Agency**  
**St. Taman Suropati No.2 Menteng, Jakarta 10310**  
**[www.bappenas.go.id](http://www.bappenas.go.id)**