



REPUBLIC OF INDONESIA

List of Medium-Term Planned External Loans 2015-2019

- 2nd Book -

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

List of Contents

	Pages
1. Toll Road Development Program	
1. Toll Road Development in Kalimantan, Sumatera, and Java Islands	4
2. Development of Cileunyi-Sumedang-Dawuan Toll Road - Phase II.....	5
3. Toll Roads Development of Balikpapan - Samarinda	6
4. Toll Road Development of Manado - Bitung.....	7
5. Toll Road Development of Solo - Kertosono	8
2. Development and Improvement of National Bridges Program	
6. Material Procurement for Construction and Bridge Rehabilitation.....	12
7. Development of Fly Over / Underpass for Railways Crossing.....	13
8. Development of Fly Over / Underpass in Major Cities.....	14
9. Balinka - Matur - Ngarai Sianok Tunnel Construction.....	15
10. Long Span Bridge Development for Selected Area.....	16
3. Development and Improvement of National Roads Program	
11. Urban Arterial Road Improvement Project.....	20
12. Construction Development of Trans South-South, Eastern Java.....	21
13. Road Improvement Project to Support Integrated Land and Sea Toll Way - Northern Area.....	22
14. Road Improvement Project to Support Integrated Land and Sea Toll Way - Southern Area.....	23
15. National Road Improvement in West and South Kalimantan.....	24
16. National Road Improvement in Central Kalimantan.....	25
17. National Road Improvement in North and East Kalimantan	26
18. Road Improvement Project in Sulawesi Island and Major Cities.....	27
4. Drinking Water Development Program	
19. Community Based Water and Sanitation Program (PAMSIMAS).....	32
20. National Urban Water Supply.....	33
21. Mamminasata Water Supply Development Project.....	34
22. The Development of Regional Water Supply System in Benteng Kobema.....	35
23. The Development of Regional Water Supply System in Wosusokas	36
24. The Development of Regional Water Supply System of Jatigede	37

25. The Development of Regional Water Supply System of Petanglong	38
26. The Development of Regional Water Supply System of Durolis	39
27. The Development of Regional Water Supply System of Banten - Jakarta from Karian Dam	40
28. The Development of Regional Water Supply System of Mebidang	41
29. Small Scale Water Treatment Plant for Emergency Relief	42
30. IKK Water Supply System and Small Water Treatment Plant for Water Scarcity Area	43
5. Development of Waste Water Management Program	
31. Community-Based Sanitation Program (SANIMAS).....	48
32. Jakarta Sewerage Development Project Zone 1 and Zone 6.....	49
33. The Development of Sewage Treatment Plant Facility in Priority Area	50
34. Sewerage System Development Program in Indonesia.....	51
35. Denpasar Sewerage Development Project - Phase III	52
36. The Development and Optimization of Wastewater Treatment in Greater Bandung	53
6. Development of Solid Waste Management Program	
37. Advanced Solid Waste Management for Sustainable Urban Development (Advanced SWM-SUD)	58
38. The Improvement of Solid Waste Management to Support Regional Area and Metropolitan Cities.....	59
7. Slum Alleviation Program	
39. Slum Improvement in Strategic Human Settlements Area (SISHA).....	65
40. National Slum Upgrading.....	66
41. Rural Settlement Infrastructure Development (RSID)	67
42. Building Administration and Capacity Enforcement Development for Seismic Resilience	68
8. Development and Management of Irrigation Program	
43. Integrated Participatory Development and Management of Irrigation Project - Phase I.....	72
44. Integrated Participatory Development and Management of Irrigation Project - Phase II	73
45. The Urgent Rehabilitation of Strategic Irrigation for Western Region of Indonesia	74
46. Rentang Irrigation Modernization Project (RIMP)	75
47. Komering Irrigation Project Stage III.....	76
48. Irrigation Development in North Sumatera	77

49. Integrated Participatory Development and Management of Lhok Guci and Peureulak Irrigation Project.....	78
50. Modernization Strategic Irrigation Project of Indonesia (MSIP)	79
51. Urgent Rehabilitation of Irrigation Project in Indonesia (URIP)	80
52. Revitalization of Groundwater Irrigation in Indonesia.....	82
53. Engineering Service for Irrigation and Low Land Development Project	83
9. Provision and Management of Bulk Water Supply Program	
54. Integrated Citarum Water Resources Management Investment Program II.....	89
55. Karian Dam-Serpong Water Conveyance and Supply System Project	90
56. Engineering Service for Bulk Water and Water Supply Development Project	91
10. Dam Development Program	
57. Jambo Aye Multipurpose Dam Project	96
58. Komering Multipurpose Dam Project - Phase II.....	97
59. Pelosika Multipurpose Dam Construction Project	98
60. Lambakan Dam Project	99
61. Jenelata Dam Construction Project.....	100
62. Bonehulu Dam Construction Project.....	101
63. Ladongi Dam Construction Project	102
64. Kuwil Kawangkoan Dam Construction Project.....	103
65. Lompitan Harimau Dam Construction Project.....	104
66. Engineering Service for Dam Multipurpose Development Project.....	105
67. Additional Loan for Jatigede Dam Project 2.....	106
11. Mitigation of Water Hazards Program	
68. Lower Solo River Improvement Project Phase II.....	110
69. Comprehensive Counter Measure for Sediment and Flood Problems in South Sulawesi Province	111
70. Bali Beach Conservation Project – Phase II.....	112
71. Urgent Disaster Reduction of Mt. Sinabung, Mt. Semeru, Mt. Kelud, Mt. Lokon, and Mt. Gamalama	114
72. Urban Flood Control System Improvement in Selected Cities Phase II	115
73. Flood Management in Selected River Basins	116
74. Flood Management in Selected River Basins Sector Project (Additional financing)	117
75. Engineering Service for Coastal and River Development Project	118

12. Management of Water Resources Infrastructure Program

76. Dam Operational Improvement And Safety Project (DOISP) – Phase II	123
77. Enhanced Water Security Investment Program	124
78. Engineering Services for Water Resources Infrastructure Management	125

13. Program for Provision of Housing for Low Income Households

79. Financial Support for Low Income Households	131
80. Support for National Housing and Urban Development Cooperation	133

14. Railway Development Program

81. Procurement of Track Material and Turn Out - Phase II.....	138
82. Procurement of Track Material and Turn Out - Phase III	139
83. Construction of Jakarta Mass Rapid Transit Project Phase II	140
84. Construction of Jakarta Mass Rapid Transit East-West Line Project Phase I.....	141
85. Construction of Jakarta Mass Rapid Transit Project.....	142
86. Engineering Services Jakarta Mass Rapid Transit (MRT) East-West Line Project Phase 1	143

15. Information Communication And Technology (ICT) And Broadcasting Infrastructure Development Program

87. Improvement of TV Transmitting Stations Phase III (Digitalization of TVRI).....	149
88. Strengthening of e-Government Infrastructure.....	150
89. National Fiber Optic Backbone (Palapa Ring).....	152
90. National Criminal Information Center for Indonesian National Police - Phase II	153

16. Electricity Infrastructure Development Program

91. Java–Sumatera Interconnection Transmission Line (HVDC) 500 kV (Phase II).....	158
92. Construction of Java Sumatera Interconnection 500 kV (HVDC-Phase 3 & 4)	159
93. Engineering Service for Hululais 1&2 Geothermal Power Plant Project (2x55 MW)	160
94. Hululais Geothermal Power Plant.....	161
95. Bakaru Hydro Electrical Power Plant (2x63MW)	162
96. Tulehu Geothermal Power Plant Project Unit 1&2 (2x10MW)	163
97. Indramayu Coal Fired Power Plant #4 (1x1000MW)	164
98. Additional Loan for Upper Cisokan Pumped Storage Hydro Electrical Power Plant (4x260MW)	165
99. Sungai Penuh Geothermal Power Plant 1&2 (2x55MW).....	166
100. Matenggeng Pumped Storage Hydro Electrical Power Plant (4x225MW)	167

17. Improving Access, Quality, Relevance, and Competitiveness of Higher Education Program	
101. <i>Strengthening Capacity of State Higher Education</i>	172
18. Improving Access, Quality, Relevance, and Competitiveness of Islamic Higher Education Program	
102. <i>Strengthening Capacity of Islamic Higher Education (IAIN and UIN)</i>	181
19. Human Resources Development for Bureaucracy Reform Program	
103. <i>Development of Capacity, Quality and Competency of Human Resources for Government Officer</i>	188
20. Basic Health Care Program	
104. <i>Improvement of Primary Health Care</i>	192
21. Program for Human Resources Development in Health Sector	
105. <i>Improvement of Facilities and Infrastructure for Teaching and Learning Activities in Health Sector</i>	197
22. Program for Disease Control, Environmental Health, and Strengthening Health Research and Development	
106. <i>Improvement of Capacity on Disease Control, Environmental Health, and Strengthening Health's Research and Development</i>	202
23. Health Services Referral Program	
107. <i>Strengthening of National Referral Hospitals, Province Referral Hospital and Vertical Technical Units</i>	207
108. <i>Reengineering and Improving The Hospital and Referral System in Selected Aceh Districts</i>	208
24. Provision and Development of Agriculture Infrastructure Program	
109. <i>Extensification of New Paddy Field Area</i>	212
110. <i>Upland Development for National Food Security</i>	213
25. Agriculture Extension, Education, and Training Improvement Program	
111. <i>Young Entrepreneur Growth and Development for Sustainably Agricultural Development</i>	219
112. <i>Rural Empowerment and Agricultural Development (READ) Programme in Sulawesi Island – Phase II</i>	220
26. Improving Labor Competitiveness Program	
113. <i>Development of Maritime Vocational Training Centers</i>	224

27. Improvement of Fisheries Facilities Program

114. *Outer Ring Fishing Portss Development Phase I*.....228

28. Program for Development and Guidance of Meteorology, Climatology, and Geophysics

115. *Strengthening Climate and Weather Service Capacity- Phase II*233

29. Science Park and Technopark Development Program

116. *Development of Maritime National Science and Technopark (NTSP) in The Northern Penajam Paser and Revitalization Infrastructure Marine Survey*238

Toll Road Development Program

BB-1519-R0-01

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1. **Program Title** : Toll Road Development Program
 2. **Executing Agency** : Ministry of Public Works and Housing
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3. Background and Justification

The flourishing economic and regional growth of several regions of Indonesia has boosted the demand for better transportation facility, in particular road infrastructure. The government is now undertaking the capacity extension by widening the existing roads, but in some section are not adequate anymore to hedge the traffic problem. The development of freeway/toll road will overcome the existing problem as well as to cope with the future needs with regard to traffic growth resulting from regional economic development and growth.

One of the development goals of national connectivity in the Medium-Term National Development Plan 2015-2019 is to build 1,000 km of toll roads in certain regions of Sumatera, Java, Kalimantan and Sulawesi Island. Therefore, it needs to collaborate with the private sector in the construction of toll road through the public-private partnership (PPP) scheme.

4. Scope of Work

- 1) Toll roads construction;
- 2) Consulting services.

5. Outcomes

- 1) The increased accessibility and capacity of the road networks and good distribution;
- 2) The increased production efficiency distributional cost, and increased access to regional and international markets;
- 3) The enhanced city development and its suburb areas in order to enhance the economic development and alleviate poverty especially along the toll road corridor;
- 4) Support to development of integrated economic development area (KAPET) in certain regions.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	2,025,000,000
Grant	:	USD	0
Counterpart Funds	:	USD	173,650,000
Total Financing	:	USD	2,198,650,000

BB-1519-R0-01-01-0

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- | | |
|-------------------------------|---|
| 1. Project Title | : Toll Road Development in Kalimantan, Sumatera, and Java Islands |
| 2. Program Title | : Toll Roads 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 | : East Kalimantan, Banten, and North Sumatra Province |
-

7. Scope of Work

To conduct construction of toll roads in East Kalimantan Province, Banten Province and North Sumatra Province.

8. Outputs

Availability of toll roads in the areas of East Kalimantan Province, Banten Province and Sumatra Province, approximately 150 km.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding	<ul style="list-style-type: none">Counterpart Funding
<ul style="list-style-type: none"><ul style="list-style-type: none">Loan : US\$ 1,250,000,000	<ul style="list-style-type: none"><ul style="list-style-type: none">Central Government : US\$ 101,250,000
<ul style="list-style-type: none"><ul style="list-style-type: none">Grant : US\$ 0	<ul style="list-style-type: none"><ul style="list-style-type: none">Regional Government : US\$ 0
	<ul style="list-style-type: none"><ul style="list-style-type: none">State-Owned Enterprise : US\$ 0
	<ul style="list-style-type: none"><ul style="list-style-type: none">Others : US\$ 0
<hr/> <div>Sub Total : US\$ 1,250,000,000</div>	<hr/> <div>Sub Total : US\$ 101,250,000</div>
<div>TOTAL : US\$ 1,351,250,000</div>	

BB-1519-R0-01-02-0

1. Project Title	: Development of Cileunyi-Sumedang-Dawuan Toll Road - Phase II
2. Program Title	: Toll Roads 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	: West Java Province

7. Scope of Work

- a. Civil works for 11.1 km toll road;
- b. Consulting services for detailed engineering design and construction supervision.

8. Outputs

Availability of the Cileunyi - Sumedang - Dawuan toll road, approximately 11.1 km.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 330,000,000	- Central Government	: US\$ 26,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 330,000,000	Sub Total	: US\$ 26,000,000
TOTAL : US\$ 356,000,000			

BB-1519-R0-01-03-0

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|-------------------------------|---|
| 1. Project Title | : Toll Roads Development of Balikpapan - Samarinda |
| 2. Program Title | : Toll Roads 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 | : East Kalimantan Province |
-

7. Scope of Work

Civil works for 11.09 km toll road.

8. Outputs

Availability of Balikpapan - Samarinda toll road, approximately 11.09 km

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	65,000,000	-	Central Government	: US\$	6,500,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-	Others	: US\$	0	-			
<hr/> Sub Total : US\$ 65,000,000				<hr/> Sub Total : US\$ 6,500,000			
TOTAL : US\$ 71,500,000							

BB-1519-R0-01-04-0

1. **Project Title** : Toll Road Development of Manado - Bitung
2. **Program Title** : Toll Roads 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** : North Sulawesi Province

7. Scope of Work

Civil works for 7.3 km toll road.

8. Outputs

Availability of Manado - Bitung toll road, approximately 7.3 km.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 80,000,000 - Grant : US\$ 0 		<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 8,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 	
Sub Total	: US\$ 80,000,000	Sub Total	: US\$ 8,000,000
TOTAL : US\$ 88,000,000			

BB-1519-R0-01-05-0

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1. **Project Title** : Toll Road Development of Solo - Kertosono
 2. **Program Title** : Toll Roads 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. Scope of Work

Construction of 26.45 Km toll road.

8. Outputs

Availability of the Solo - Kertosono toll road, approximately 26.45 km.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding 				<ul style="list-style-type: none"> • Counterpart Funding 			
-	Loan	: US\$	300,000,000	-	Central Government	: US\$	31,900,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-	Others	: US\$	0	-			
Sub Total		: US\$	300,000,000	Sub Total		: US\$	31,900,000
TOTAL : US\$ 331,900,000							

Development and Improvement of National Bridges Program

BB-1519-R0-02

1. Program Title	: Development and Improvement of National Bridges Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

The growth of the national economy requires support of the transportation infrastructure, such as arterial roads, toll roads, railways, ports, airports, and ferry transport, including the availability of bridges that are in the arterial roads and intersections between roads and railways. There are more than 30,000 bridges in Indonesia, which naturally will deteriorate along their ages. The bridge deterioration is proportional to the scale, and if the deterioration continues then the bridges will be damaged.

Based on the evaluation of the bridges, there are 55,000 meters of bridges that need to be replaced because of the degree of its damage reaches rank 4 (scale 0 to 5). On the other hand, there are several new bridges that need to be constructed on the roads and railway crossings, at busy crossroads in urban areas (underpass/ flyover), as well as construction of long-span bridges and tunnels.

4. Scope of Work

- 1) Procurement of materials, such as concrete bridge framework.
- 2) Construction and supervision of flyover/underpass for railways crossings.
- 3) Construction and supervision of flyover/underpass in major cities.
- 4) Civil works of tunnel, bridge and road constructions.
- 5) Construction of long-span bridges for selected area.

5. Outcomes

- 1) Increased accessibility and connectivity between areas/ islands.
- 2) Shortened travel time and reduced transportation costs.
- 3) Increased social and economic growth in order to support regional development.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	1,500,000,000
Grant	:	USD	0
Counterpart Funds	:	USD	126,500,000
Total Financing	:	USD	1,626,500,000

BB-1519-R0-02-01-0

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|-------------------------------|---|
| 1. Project Title | : Material Procurement for Construction and Bridge Rehabilitation |
| 2. Program Title | : Development and Improvement of National Bridges 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 | : Nationwide |
-

7. Scope of Work

- a. Procurement of materials, such as concrete bridge frame work for construction;
- b. Rehabilitation of existing bridges.

8. Outputs

- a. Availability of materials, especially concrete bridge framework for construction;
- b. Improvement of existing bridges in Indonesia approximately 55 km.

9. Project Cost

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

BB-1519-R0-02-02-0

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|-------------------------------|---|
| 1. Project Title | : Development of Fly Over / Underpass for Railways Crossing |
| 2. Program Title | : Development and Improvement of National Bridges 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 | : Java and Sumatera Island |
-

7. Scope of Work

Construction of fly over/ underpass for railways crossings in Java and Sumatera Island.

8. Outputs

Availability of fly over/ underpass for railways crossings in Java and Sumatera Island, approximately 7 km.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 250,000,000	- Central Government	: US\$ 50,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 250,000,000	Sub Total	: US\$ 50,000,000
TOTAL : US\$ 300,000,000			

BB-1519-R0-02-03-0

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1. **Project Title** : Development of Fly Over / Underpass in Major Cities
 2. **Program Title** : Development and Improvement of National Bridges 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** : Selected Cities (D.I. Yogyakarta, Solo, Malang, Cirebon, Pekanbaru, Bandar Lampung) and Metropolitans (Bandung, Semarang, Palembang)
-

7. Scope of Work

- a. Construction of flyover/ underpass in major cities in Java and Sumatera Island;
- b. Supervision of flyover/ underpass in major cities in Java and Sumatera Island.

8. Outputs

Availability of flyover/underpass in major cities in Java and Sumatera Island, with approximately 8 km length;

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding 				<ul style="list-style-type: none"> • Counterpart Funding 			
-	Loan	: US\$	270,000,000	-	Central Government	: US\$	50,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 270,000,000				<hr/> Sub Total : US\$ 50,000,000			
TOTAL : US\$ 320,000,000							

BB-1519-R0-02-04-0

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|-------------------------------|---|
| 1. Project Title | : Balinka - Matur - Ngarai Sianok Tunnel Construction |
| 2. Program Title | : Development and Improvement of National Bridges 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 | : West Sumatera Province |

7. Scope of Work

Civil works of tunnels, bridges, and road constructions of Balinka - Matur - Ngarai Sianok.

8. Outputs

Availability of tunnels, bridges and roads that connect Balinka - Matur - Ngarai Sianok, with approximately 5 km.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding			<ul style="list-style-type: none">Counterpart Funding		
-	Loan	: US\$ 175,000,000	-	Central Government	: US\$ 8,750,000
-	Grant	: US\$ 0	-	Regional Government	: US\$ 0
			-	State-Owned Enterprise	: US\$ 0
			-	Others	: US\$ 0
<hr/>			<hr/>		
	Sub Total	: US\$ 175,000,000		Sub Total	: US\$ 8,750,000
<hr/>					
TOTAL : US\$ 183,750,000					

BB-1519-R0-02-05-0

1. **Project Title** : Long Span Bridge Development for Selected Area
2. **Program Title** : Development and Improvement of National Bridges 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** : Sumatera and Java Island

7. Scope of Works

Construction of long span bridges for selected area in Sumatera and Java Island.

8. Outputs

Availability of long span bridges for selected area in Sumatera and Java Island, approximately 5,000 meters.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding 				<ul style="list-style-type: none"> • Counterpart Funding 			
-	Loan	: US\$	355,000,000	-	Central Government	: US\$	17,750,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total		: US\$	355,000,000	Sub Total		: US\$	17,750,000
TOTAL : US\$ 372,750,000							

Development and Improvement of National Roads Program

BB-1519-R0-03

1. Program Title	: Development and Improvement of National Roads Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

The deficit in Indonesia's transportation infrastructure hampers sustainable economic growth and equitable distribution of development outcomes. It also reduce the global competitiveness of the national economy. Therefore, the road development and improvement is needed in order to solve the insufficiency of road network infrastructure all over the country, and to overcome the bottlenecks and gridlocks which occurs mainly at the arterial road between regions and in urban areas.

Hence, the development of transport in all parts of Indonesia is focused to encourage the population mobilization for increasing distribution of development, reducing the gap between regions, reduce traffic congestion and reduce the concentration of population concentration on Java Island. The development and improvement of national roads are aimed at increasing the stability of the national road to 98 per cent of provincial road to 75 percent, and of the road of districts/cities to 65 percent, in order to improve accessibility and preparedness in the face of globalization economics.

4. Scope of Work

- 1) Feasibility studies and detailed design;
- 2) Road construction and improvement in certain region;
- 3) Construction and supervision of some bypasses, missing links, fly overs, underpasses as well as intersection management in the metropolitan cities.

5. Outcomes

- 1) Increased level of services of national roads.
- 2) Increased accessibility, capacity, and connectivity of the road network.
- 3) Reduced traffic congestion problems.
- 4) Increased efficiency of travel, shortening the travel time, and reduced logistics costs.
- 5) Increased economic growth supporting regional development.
- 6) Increased comfort and safety of road users.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need:**

Loan	:	USD	2,000,000,000
Grant	:	USD	0
Counterpart Funds	:	USD	400,000,000
Total Financing	:	USD	2,400,000,000

BB-1519-R0-03-01-0

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1. **Project Title** : Urban Arterial Road Improvement Project
 2. **Program Title** : Development and Improvement of National Roads 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** : 48 months
 6. **Location** : Selected Cities (Palembang, Medan, Bandung, Semarang, Denpasar, and Banjarmasin City)
-

7. Scope of Work

- a. Preparation works, such as feasibility studies, and detailed design;
- b. Construction works and supervision of bypasses, missing links, flyovers and underpasses, and intersection managements in big cities/ metropolitan cities.

8. Outputs

Availability of improved roads in metropolitan cities, in particular in Palembang, Medan, Bandung, Semarang, Denpasar and Banjarmasin City.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 250,000,000 - Grant : US\$ 0 				<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 50,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 			
Sub Total : US\$ 250,000,000				Sub Total : US\$ 50,000,000			
TOTAL : US\$ 300,000,000							

BB-1519-R0-03-02-0

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- 1. Project Title** : Construction Development of Trans South-South, Eastern Java
 - 2. Program Title** : Development and Improvement of National Roads 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** : 48 months
 - 6. Location** : Banten, West Java, Central Java, D.I Yogyakarta, and East Java Province
-

7. Scope of Work

- a. Development and improvement of South-South Trans Java Roads;
- b. Construction work and supervision for the construction and improvement of South South Trans Java.

8. Outputs

Availability of South-South Trans Java Roads, approximately 200 km.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 250,000,000Grant : US\$ 0	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 50,000,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0
<hr/> <div>Sub Total : US\$ 250,000,000</div>	<hr/> <div>Sub Total : US\$ 50,000,000</div>
<div>TOTAL : US\$ 300,000,000</div>	

BB-1519-R0-03-03-0

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|-------------------------------|--|
| 1. Project Title | : Road Improvement Project to Support Integrated Land and Sea Toll Way - Northern Area |
| 2. Program Title | : Development and Improvement of National Roads 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 | : 48 months |
| 6. Location | : North Sumatra, Riau, and Aceh Province |
-

7. Scope of Work

- a. Road construction in Aceh - Medan - Riau corridor and Medan - Sibolga corridor;
- b. Engineering design and supervision of integrated transportation and sea toll way northern section.

8. Outputs

Availability of improved roads that support integrated transportation and sea toll way in northern section, approximately 200 km.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	250,000,000	-	Central Government	: US\$	50,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 250,000,000				<hr/> Sub Total : US\$ 50,000,000			
TOTAL : US\$ 300,000,000							

BB-1519-R0-03-04-0

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|-------------------------------|--|
| 1. Project Title | : Road Improvement Project to Support Integrated Land and Sea Toll Way - Southern Area |
| 2. Program Title | : Development and Improvement of National Roads 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 | : 48 months |
| 6. Location | : Banten, Lampung, South Sumatra, and Bengkulu Province |

7. Scope of Work

- a. Road construction and improvement along Merak - Bakauheni - Bandar Lampung - Palembang - Tanjung Api-Api, Palembang - Bengkulu corridor and Palembang - Jambi corridor;
- b. Engineering design and supervision.

8. Outputs

Availability of roads that support integrated transportation and sea way toll in the Southern section, approximately 200 km.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 250,000,000	- Central Government	: US\$ 50,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 250,000,000	Sub Total	: US\$ 50,000,000
TOTAL : US\$ 300,000,000			

BB-1519-R0-03-05-0

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|-------------------------------|---|
| 1. Project Title | : National Road Improvement in West and South Kalimantan |
| 2. Program Title | : Development and Improvement of National Roads 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 | : South Kalimantan and West Kalimantan Province |
-

7. Scope of Work

- a. Improvement and development of roads in West Kalimantan and South Kalimantan Province;
- b. Supervision for road development.

8. Outputs

Availability of improved roads in West Kalimantan and South Kalimantan Province, approximately 200 km.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	250,000,000	-	Central Government	: US\$	50,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 250,000,000				Sub Total : US\$ 50,000,000			
TOTAL : US\$ 300,000,000							

BB-1519-R0-03-06-0

- 1. Project Title** : National Road Improvement in Central Kalimantan
- 2. Program Title** : Development and Improvement of National Roads 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 Kalimantan Province

7. Scope of Work

- a. Construction work for road improvement;
- b. Supervision of road improvement.

8. Outputs

Availability of improved roads in Central Kalimantan Province, approximately 200 km.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 250,000,000 - Grant : US\$ 0 		<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 50,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 	
Sub Total	: US\$ 250,000,000	Sub Total	: US\$ 50,000,000
TOTAL : US\$ 300,000,000			

BB-1519-R0-03-07-0

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|-------------------------------|---|
| 1. Project Title | : National Road Improvement in North and East Kalimantan |
| 2. Program Title | : Development and Improvement of National Roads 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 | : North Kalimantan and East Kalimantan Province |
-

7. Scope of Work

- a. Construction of road improvement in North Kalimantan and East Kalimantan Province;
- b. Supervision of road improvement.

8. Outputs

Availability of improved roads in North Kalimantan and East Kalimantan Province, with approximately 200 km.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	250,000,000	-	Central Government	: US\$	50,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 250,000,000				<hr/> Sub Total : US\$ 50,000,000			
TOTAL : US\$ 300,000,000							

BB-1519-R0-03-08-0

1. **Project Title** : Road Improvement Project in Sulawesi Island and Major Cities
2. **Program Title** : Development and Improvement of National Roads 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** : South Sulawesi and Gorontalo Province

7. Scope of Work

- a. Construction works for road improvement and bypass in Mamminasata and Gorontalo Outer Ring Road;
- b. Supervision works.

8. Outputs

Availability of improved roads and bypass in Mamminasata and Gorontalo Outer Ring Road approximately 200 km.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 250,000,000 - Grant : US\$ 0 		<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 50,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 	
<hr/> Sub Total : US\$ 250,000,000		<hr/> Sub Total : US\$ 50,000,000	
TOTAL : US\$ 300,000,000			

Drinking Water Development Program

BB-1519-R0-04

1. Program Title	: Drinking Water Development Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

Based on the Long-Term National Development Plan 2005-2025, achieving the minimum basic services is mandatory in the third phase of medium term plan. Therefore, in the Medium-Term National Development Plan 2015-2019, the government has committed to achieve universal access of water and sanitation by 2019. In 2014, household's access to drinking water was 68.38%. Therefore, there are 97 million people need to be provided with drinking water access within the next 5 years. The government has already put enormous efforts in the last 10 years. However, stronger collaborated efforts are necessary to put in place, focusing on optimization of existing infrastructure, construction of new infrastructure and improvement of the enabling environment (regulations, finance, institution, and human resources).

4. Scope of Work

- 1) Enhancement of the enabling environment of drinking water sector;
- 2) Optimization of existing infrastructure for both city-wide and community-based systems;
- 3) Construction of new infrastructure, both in terms of city wide systems and community - based systems;
- 4) Provision of drinking water and sanitation services for emergency relief.

5. Outcomes

- 1) Increased access of household to drinking water as contribution to achieving the universal access;
- 2) Improved community behavior towards good clean and healthy lifestyle.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	1,197,680,000
Grant	:	USD	0
Counterpart Funds	:	USD	59,434,000
Total Financing	:	USD	1,257,114,000

BB-1519-R0-04-01-0

1. Project Title	: Community Based Water and Sanitation Program (PAMSIMAS)
2. Program Title	: Drinking Water Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 60 months
6. Location	: Nationwide

7. Scope of Work

- a. Protected water sources development, both in community and household level;
- b. The development of water supply system and sanitation's infrastructures in 5,000 villages in selected provinces and regencies;
- c. Procurement and training of consultant at national, provincial and regency level;
- d. Procurement and training of community facilitators for 5,000 villages;
- e. Support to community empowerment and local institutional capacity building activities;
- f. Support to strategic planning for the implementation of capacity building activities.

8. Outputs

Improvement of quality human settlements and sustainable water supply which provides 719,500 household connections.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	300,000,000	-	Central Government	: US\$	15,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 300,000,000				Sub Total : US\$ 15,000,000			
TOTAL : US\$ 315,000,000							

BB-1519-R0-04-02-0

1. Project Title	: National Urban Water Supply
2. Program Title	: Drinking Water Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 60 months
6. Location	: Nationwide

7. Scope of Work

- a. Construction of integrated urban water supply;
- b. Expansion of water supply service through increasing the capacity of existing water supply systems and expansion of distribution;
- c. Improvement of water supply financial capacity through *Fasilitas Investasi Air Minum dan Sanitasi Indonesia (FIAMSI)*;
- d. Capacity building of water supply operators, including Water Operator Partnerships (WOPs), good governance and sustainable financial management of PDAM, strengthening human resource capacity, energy efficiency of PDAM operations, and Non Revenue Water (NRW) control.

8. Outputs

- a. Expansion of water supply service for 239,808 household connections;
- b. Improvement of water operator capacity.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 100,000,000	- Central Government	: US\$ 5,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 100,000,000	Sub Total	: US\$ 5,000,000
TOTAL : US\$ 105,000,000			

BB-1519-R0-04-03-0

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|-------------------------------|--|
| 1. Project Title | : Mamminasata Water Supply Development Project |
| 2. Program Title | : Drinking Water Development Program |
| 3. Executing Agency | : Ministry of Public Works and Housing |
| 4. Implementing Agency | : Directorate General of Human Settlements, Ministry of Public Works and Housing |
| 5. Duration | : 60 months |
| 6. Location | : Makassar, Maros, Gowa, and Takalar City |
-

7. Scope of Work

- a. The development of water treatment plant of Somba Opu Phase II, with the capacity of 1,000 l/s;
- b. The development of transmission pipelines;
- c. Consultant services.

8. Outputs

Availability of water supply system to serve 149,925 household connections in Mamminasata region (Makassar, Maros, Gowa, and Takalar City).

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	100,000,000	-	Central Government	: US\$	5,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 100,000,000				<hr/> Sub Total : US\$ 5,000,000			
TOTAL : US\$ 105,000,000							

BB-1519-R0-04-04-0

- 1. Project Title** : The Development of Regional Water Supply System in Benteng Kobema
- 2. Program Title** : Drinking Water Development Program
- 3. Executing Agency** : Ministry of Public Works and Housing
- 4. Implementing Agency** : Directorate General of Human Settlements, Ministry of Public Works and Housing
- 5. Duration** : 60 months
- 6. Location** : Central Bengkulu Regency, Bengkulu City, and Seluma Regency

7. Scope of Work

- a. Development of Pagar Jati Water Treatment Plant 2 x 500 l/s;
- b. Development of reservoir of 18,000 m³;
- c. Development of raw water transmission pipelines with the diameter of 500 mm and the length of 12 km;
- d. Development of clean water transmission pipelines with the diameter of 500 mm and the length of 12.3 km;
- e. Development of distribution pipelines with the diameter of 500-1,000 mm and the length of 41.15 km.

8. Outputs

Availability of water supply system for 111,394 household connections in Bengkulu City, Central Bengkulu Regency and Seluma Regency.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 74,300,000 - Grant : US\$ 0 		<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 3,715,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 	
Sub Total	: US\$ 74,300,000	Sub Total	: US\$ 3,715,000
TOTAL : US\$ 78,015,000			

BB-1519-R0-04-05-0

1. Project Title	: The Development of Regional Water Supply System in Wosusokas
2. Program Title	: Drinking Water Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 60 months
6. Location	: Wonogiri, Sukoharjo, Surakarta (Solo), Karanganyar, and Sragen City

7. Scope of Work

- a. The development of raw water unit, production and main distribution unit, service unit and management unit;
- b. Licensing, provision of land, compensation of exploration and the utilization of surface water.

8. Outputs

Availability of water supply system for 159,220 household connections in Wonogiri, Sukoharjo, Surakarta (Solo), Karanganyar, and Sragen City (Wosusokas).

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding <ul style="list-style-type: none"> Loan : US\$ 106,200,000 Grant : US\$ 0 				<ul style="list-style-type: none"> Counterpart Funding <ul style="list-style-type: none"> Central Government : US\$ 5,310,000 Regional Government : US\$ 0 State-Owned Enterprise : US\$ 0 Others : US\$ 0 			
Sub Total : US\$ 106,200,000				Sub Total : US\$ 5,310,000			
TOTAL : US\$ 111,510,000							

BB-1519-R0-04-07-0

1. Project Title	: The Development of Regional Water Supply System of Petanglong
2. Program Title	: Drinking Water Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 60 months
6. Location	: Pekalongan City, Batang Regency, and Pekalongan Regency

7. Scope of Work

- a. The development of raw water intake and transmissions;
- b. The development of water treatment plants with the capacity of 1,100 l/s.

8. Outputs

Availability of water supply systems for 142,999 household connections in Batang Regency, Pekalongan Regency, and Pekalongan City (PETANGLONG).

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	95,380,000	-	Central Government	: US\$	4,769,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 95,380,000				Sub Total : US\$ 4,769,000			
TOTAL : US\$ 100,149,000							

BB-1519-R0-04-08-0

1. Project Title	: The Development of Regional Water Supply System of Durolis
2. Program Title	: Drinking Water Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 36 months
6. Location	: Dumai Regency, Rokan Hilir Regency, and Bengkalis Regency

7. Scope of Work

- The development of raw water unit, production and main distribution unit, service unit and management unit;
- Licensing, provision of land, compensation of exploration and the utilization of surface water.

8. Outputs

- Availability of water treatment plants with the capacity of 500 l/s;
- Availability of water supply systems to provide 24,000 households.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding <ul style="list-style-type: none"> Loan : US\$ 33,400,000 Grant : US\$ 0 				<ul style="list-style-type: none"> Counterpart Funding <ul style="list-style-type: none"> Central Government : US\$ 1,670,000 Regional Government : US\$ 0 State-Owned Enterprise : US\$ 0 Others : US\$ 0 			
Sub Total : US\$ 33,400,000				Sub Total : US\$ 1,670,000			
TOTAL : US\$ 35,070,000							

BB-1519-R0-04-09-0

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|-------------------------------|---|
| 1. Project Title | : The Development of Regional Water Supply System of Banten - Jakarta from Karian Dam |
| 2. Program Title | : Drinking Water Development Program |
| 3. Executing Agency | : Ministry of Public Works and Housing |
| 4. Implementing Agency | : Directorate General of Human Settlements, Ministry of Public Works and Housing |
| 5. Duration | : 60 months |
| 6. Location | : Banten and DKI Jakarta Province |
-

7. Scope of Work

- a. The development of water treatment plant phase I, with the capacity of 518,000 m³/day (6,000 l/s);
- b. The development of water treatment plant phase II, with the capacity of 346,000 m³/day (4,000 l/s);
- c. The development of transmission pipelines.

8. Outputs

Availability of water supply systems which serves 59,970 household connections.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	40,000,000	-	Central Government	: US\$	2,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 40,000,000				Sub Total : US\$ 2,000,000			
TOTAL : US\$ 42,000,000							

BB-1519-R0-04-10-0

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| 1. Project Title | : The Development of Regional Water Supply System of Mebidang |
| 2. Program Title | : Drinking Water Development Program |
| 3. Executing Agency | : Ministry of Public Works and Housing |
| 4. Implementing Agency | : Directorate General of Human Settlements, Ministry of Public Works and Housing |
| 5. Duration | : 60 months |
| 6. Location | : Medan City, Binjai Region, and Deli Serdang Region |

7. Scope of Work

- a. The development of water treatment plants with the capacity of 1,250 l/s;
- b. The development of transmission pipelines.

8. Outputs

Availability of water supply system which serves 84,558 household in Medan, Binjai, and Deli Serdang region (MEBIDANG).

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 			<ul style="list-style-type: none"> Counterpart Funding 		
-	Loan	: US\$ 56,400,000	-	Central Government	: US\$ 2,820,000
-	Grant	: US\$ 0	-	Regional Government	: US\$ 0
-			-	State-Owned Enterprise	: US\$ 0
-			-	Others	: US\$ 0
Sub Total : US\$ 56,400,000			Sub Total : US\$ 2,820,000		
TOTAL : US\$ 59,220,000					

BB-1519-R0-04-11-0

1. Project Title	: Small Scale Water Treatment Plant for Emergency Relief
2. Program Title	: Drinking Water Development Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 24 months
6. Location	: Medan, Bekasi, Makassar, and Surabaya City

7. Scope of Work

- a. Provide small scale water treatment plants, along with its supporting equipments, truck, and communication system for emergency relief (including operational vehicle) in four locations (Medan, Bekasi, Makassar, and Surabaya City);
- b. Construction of Location Open Storage in four locations (Medan, Bekasi, Makassar, dan Surabaya City);
- c. Emergency Module Unit (EMUs) training program that consist of EMUs management and training and EMUs operation and maintenance for technicians.

8. Outputs

Availability of small scale water treatment plants that can be used effectively in case of emergency.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	25,000,000	-	Central Government	: US\$	800,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-	Others	: US\$	0	-			
Sub Total		: US\$	25,000,000	Sub Total		: US\$	800,000
TOTAL : US\$ 25,800,000							

BB-1519-R0-04-12-0

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|-------------------------------|---|
| 1. Project Title | : IKK Water Supply System and Small Water Treatment Plant for Water Scarcity Area |
| 2. Program Title | : Drinking Water Development Program |
| 3. Executing Agency | : Ministry of Public Works and Housing |
| 4. Implementing Agency | : Directorate General of Human Settlements, Ministry of Public Works and Housing |
| 5. Duration | : 60 months |
| 6. Location | : Nationwide |
-

7. Scope of Work

- a. Development of raw water intake and transmission networks;
- b. Development of water treatment plants along with supporting buildings and accessories in accordance with required capacity;
- c. Development of main distribution network of water treatment plants.

8. Outputs

Availability of water supply systems to serve drinking water demand in 85 locations, which cover approximately of 191,847 household connections.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 100,000,000	- Central Government	: US\$ 5,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 100,000,000	Sub Total	: US\$ 5,000,000
TOTAL : US\$ 105,000,000			

Development of Waste Water Management Program

BB-1519-R0-05

1. Program Title	: Development of Waste Water Management Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

Based on the Long-Term National Development Plan 2005-2025, provision of minimum basic services including sanitation is mandatory to be achieved in the third phase of medium term plan. Therefore, in the Medium-Term National Development Plan 2015-2019, the government has committed to achieve universal access of sanitation by 2019. Aproximately, there are around 110 million people need to be provided with sanitation access within the next 5 years.

Despite government's enormous efforts in the last 10 years for sanitation development, some problems still remain and contribution from development partners is still required to address them. The main problems include lack of infrastructure, non-optimum use of existing facilities, and relatively low quality of enabling environment (including regulations, finance, institution, and human resources aspect).

4. Scope of Work

- 1) Preparation of detailed engineering design for wastewater treatment plant (WWTP);
- 2) Construction and optimization of sanitation facilities and infrastructure including WWTP, sewerage systems, and septage treatment plant;
- 3) Development of community-based sanitation systems;
- 4) Strengthening capacity of institution responsible for sanitation service provision.

5. Outcomes

- 1) Increased access of household to sanitation as contribution to achieving the universal access;
- 2) Improved community behavior towards good clean and healthy lifestyle;
- 3) Improved public and environmental health.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	3,583,000,000
Grant	:	USD	0
Counterpart Funds	:	USD	179,150,000
Total Financing	:	USD	3,762,150,000

BB-1519-R0-05-01-0

1. Project Title	: Community-Based Sanitation Program (SANIMAS)
2. Program Title	: Development of Waste Water Management Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 48 months
6. Location	: Nationwide

7. Scope of Work

- a. Community empowerment program through assistance facilitators and trainings;
- b. Institutional capacity building;
- c. Consultant services.

8. Outputs

- a. Improvement of community's capacity in planning, developing and managing community-based communal wastewater treatment facility;
- b. Provision of community-based communal wastewater treatment facility which serves 2 million people;
- c. Improvement of local government's capacity in developing community-based communal wastewater treatment facility.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	250,000,000	-	Central Government	: US\$	12,500,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total		: US\$	250,000,000	Sub Total		: US\$	12,500,000
TOTAL : US\$ 262,500,000							

BB-1519-R0-05-02-0

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|-------------------------------|--|
| 1. Project Title | : Jakarta Sewerage Development Project Zone 1 and Zone 6 |
| 2. Program Title | : Development of Waste Water Management Program |
| 3. Executing Agency | : Ministry of Public Works and Housing |
| 4. Implementing Agency | : Directorate General of Human Settlements, Ministry of Public Works and Housing |
| 5. Duration | : 80 months |
| 6. Location | : DKI Jakarta |

7. Scope of Work

- a. The preparation of detailed engineering design for zone 6;
- b. The development of sewerage system for zone 1 and zone 6 including pump stations;
- c. The development of Wastewater Treatment Plant (WWTP).

8. Outputs

The availability of wastewater pipeline network in zone 1 and zone 6 which will serve approximately 2 million people.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 1,950,000,000Grant : US\$ 0	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 97,500,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0
<hr/> <div>Sub Total : US\$ 1,950,000,000</div>	<hr/> <div>Sub Total : US\$ 97,500,000</div>
<div>TOTAL : US\$ 2,047,500,000</div>	

BB-1519-R0-05-03-0

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|-------------------------------|--|
| 1. Project Title | : The Development of Sewage Treatment Plant Facility in Priority Area |
| 2. Program Title | : Development of Waste Water Management Program |
| 3. Executing Agency | : Ministry of Public Works and Housing |
| 4. Implementing Agency | : Directorate General of Human Settlements, Ministry of Public Works and Housing |
| 5. Duration | : 36 months |
| 6. Location | : Nationwide |
-

7. Scope of Work

- a. The optimalization of Septage Treatment Plants by implementation of regular desludging system;
- b. The provision of septage treatment infrastructures in the form of septage trucks, sucking pumps and Septage Treatment Plants.

8. Outputs

Availability of septage treatment infrastructures and facilities to serve 7.2 million people approximately.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	75,000,000	-	Central Government	: US\$	3,750,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 75,000,000				<hr/> Sub Total : US\$ 3,750,000			
TOTAL : US\$ 78,750,000							

BB-1519-R0-05-04-0

1. Project Title	: Sewerage System Development Program in Indonesia
2. Program Title	: Development of Waste Water Management Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 24 months
6. Location	: Nationwide

7. Scope of Work

- a. Construction of sanitation infrastructure and Waste Water Treatment Plant (WWTP);
- b. Institutional capacity building for the management of WWTP organization.

8. Outputs

- a. Improvement of public awareness of sanitation services;
- b. Construction and operation of waste water collection, treatment and disposal facilities;
- c. Implementation of sanitation strategy;
- d. Improvement of sanitation access to serve 4.6 milion people approximately.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding - Loan : US\$ 975,000,000 - Grant : US\$ 0 		<ul style="list-style-type: none"> Counterpart Funding - Central Government : US\$ 48,750,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 	
Sub Total	: US\$ 975,000,000	Sub Total	: US\$ 48,750,000
TOTAL : US\$ 1,023,750,000			

BB-1519-R0-05-05-0

1. Project Title	: Denpasar Sewerage Development Project - Phase III
2. Program Title	: Development of Waste Water Management Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 72 months
6. Location	: Denpasar City and Badung City

7. Scope of Work

- a. Pipeline networks with service area covering 2,200 ha;
- b. Development of two transfer pump stations in Denpasar;
- c. Expanding the existing wastewater treatment plant.

8. Outputs

- a. Expansion of the existing wastewater treatment facilities to serve 119 thousand people in Denpasar and Badung;
- b. Development of operation and maintenance system, which will be managed by local government.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	233,000,000	-	Central Government	: US\$	11,650,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-		: US\$		-	State-Owned Enterprise	: US\$	0
-		: US\$		-	Others	: US\$	0
Sub Total : US\$ 233,000,000				Sub Total : US\$ 11,650,000			
TOTAL : US\$ 244,650,000							

BB-1519-R0-05-06-0

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- | | |
|-------------------------------|--|
| 1. Project Title | : The Development and Optimization of Wastewater Treatment in Greater Bandung |
| 2. Program Title | : Development of Waste Water Management Program |
| 3. Executing Agency | : Ministry of Public Works and Housing |
| 4. Implementing Agency | : Directorate General of Human Settlements, Ministry of Public Works and Housing |
| 5. Duration | : 60 months |
| 6. Location | : West Java Province |
-

7. Scope of Work

- a. Review the wastewater master plan;
- b. Increasing wastewater service coverage with the priority of optimizing of the Bojongsoang Waste Water Treatment Plant (WWTP).

8. Outputs

Increased waste water service coverage to 480 thousand people in Greater Bandung area.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding <ul style="list-style-type: none"> Loan : US\$ 100,000,000 Grant : US\$ 0 		<ul style="list-style-type: none"> Counterpart Funding <ul style="list-style-type: none"> Central Government : US\$ 5,000,000 Regional Government : US\$ 0 State-Owned Enterprise : US\$ 0 Others : US\$ 0 	
Sub Total	: US\$ 100,000,000	Sub Total	: US\$ 5,000,000
TOTAL : US\$ 105,000,000			

Development of Solid Waste Management Program

BB-1519-R0-06

1. Program Title	: Development of Solid Waste Management Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

Based on the Long-Term National Development Plan 2005-2025, provision of minimum basic services including sanitation is mandatory to be achieved in the third phase of medium term plan. Therefore, in the Medium-Term National Development Plan (RPJMN) 2015-2019, the government has committed to achieve universal access of sanitation by 2019. Besides waste water, the term of sanitation also includes solid waste management.

Based on Health Basic Research by Ministry of Health, only 46% of households in urban areas are covered by solid waste collection service in 2013. In RPJMN 2015-2019, solid waste management development has two main targets which are developed according to mandates of Law No 18/2008 on Solid Waste Management: development of final disposal treatment site and implementation of 3R (reduce-reuse-recycle) approach in managing solid waste. The targets therefore is to achieve 80% of solid waste service coverage in urban areas and 20% of solid waste is managed with 3R approach, through development of sanitary landfill sites and 3R-based facility throughout the country.

Solid waste management is one of the key subsector in basic services. Managing it properly will bring great impact, not only in public health but also in environmental health and aesthetic aspect of an area. The impact could also extend to improving economic condition of certain social group of community.

4. Scope of Work

- 1) Development of sanitary landfill with its supporting facilities;
- 2) Development of waste treatment technology system, including sorting and composting facilities;
- 3) Development intermediate treatment facility;
- 4) Capacity building institution responsible for solid waste management.

5. Outcomes

- 1) Increased access of household to sanitation as contribution to achieve the universal access;
- 2) Improved community behavior towards good clean and healthy lifestyle;
- 3) Improved public and environmental health;
- 4) Reduction of greenhouse gas emission.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	250,000,000
Grant	:	USD	0
Counterpart Funds	:	USD	12,500,000
Total Financing	:	USD	262,500,000

BB-1519-R0-06-01-0

1. Project Title	: Advanced Solid Waste Management for Sustainable Urban Development (Advanced SWM-SUD)
2. Program Title	: Development of Solid Waste Management Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 48 months
6. Location	: Nationwide

7. Scope of Work

- Development of new sanitary landfill;
- Development of Green Solid Waste Treatment Technology Unit to reduce solid waste by the suitable selection of technology to the conditions of respective service area;
- Development of Intermediate Treatment Facility (ITF);
- Development of supporting infrastructure;
- Development of buffer zone;
- Supervision of construction activities.

8. Outputs

- Improvement of the existing landfills' condition and availability of new landfills equipped with Green Solid Waste Treatment Technology Unit which is adjusted with respective condition of service area;
- Improvement of solid waste management's performance, which will serve up to 13 million people.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	150,000,000	-	Central Government	: US\$	7,500,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total		: US\$	150,000,000	Sub Total		: US\$	7,500,000
TOTAL : US\$ 157,500,000							

BB-1519-R0-06-02-0

1. Project Title	: The Improvement of Solid Waste Management to Support Regional Area and Metropolitan Cities
2. Program Title	: Development of Solid Waste Management Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 36 months
6. Location	: Tangerang, Balikpapan, and Manado City

7. Scope of Work

- Rehabilitation, reengineering of existing landfills, and construction of new sanitary landfills with supporting facilities;
- The development of Intermediate Treatment Facility (ITF);
- The development of Reuse, Reduce, and Recycle (3R) concept to be applied in the solid waste management system;
- Capacity building for institutions which responsible for solid waste management.

8. Outputs

- Construction of sanitary landfills with supporting facilities to serve up to 4 million people;
- Availability of operation and maintenance (O&M) system;
- Adoption and implementation of O&M system and guidelines;
- Improvement of waste collection and disposal systems;
- Adoption and implementation of collection strategy and tariff.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 100,000,000	- Central Government	: US\$ 5,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 100,000,000	Sub Total	: US\$ 5,000,000
TOTAL : US\$ 105,000,000			

Slum Alleviation Program

BB-1519-R0-07

1. Program Title	: Slum Alleviation Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

Based on the Long-Term National Development Plan 2005-2025, provision of minimum basic services including adequate housing is mandatory to be achieved in the third phase of medium term plan. Therefore, in the Medium-Term National Development Plan (RPJMN) 2015-2019, the government has committed to achieve Cities without Slum or 0% slum area by 2019. This policy adopts two-prong strategies that will concentrate simultaneously on slum alleviation and prevention.

Indonesian cities grew fast but they face lack of capacities to provide better livelihood, adequate infrastructures, affordable housing, and safety buildings. Urban infrastructure condition has been deteriorating and it has impacted to the decreasing quality of urban life. On the other hand, city government has limited resources to supply affordable houses for the poors that caused urban slum areas. Based on MDG's report in 2011, around 12.2% of urban population or approximately 9 million households still reside in dwelling units which lack of safe water and adequate sanitation. Moreover, the total of slum area has reached 38,431 Ha in 2014. It means that almost a quarter of the total urban population are living in slum area.

Therefore, the government has committed to achieve Cities without Slum or 0% slum area by alleviating 38,431 Ha slum area and improving community capacity in 7,683 villages or urban wards. The Government of Indonesia strongly believe that the successfulness in achieving the target of 100-0-100 is mostly determined by the contribution of local government, public participation and stakeholders collaboration in human settlements sector at the local level.

4. Scope of Work

- 1) Development of urban settlements infrastructure in selected regions;
- 2) Development of rural infrastructure in selected regions;
- 3) Development of local community institutions in order to manage and maintain the infrastructures;
- 4) Development of guidances for Earthquake Resistant Buildings for some cities or district;
- 5) Development of dissemination method for Earthquake Resistant Buildings implementation;
- 6) Improvement of local government's capacity and communities regarding the prevention of slums.

5. Outcomes

- 1) Improved quality of urban and rural settlements;
- 2) Improved of health and hygiene behavior in local slum communities;
- 3) Increased community participation to prevent slum settlements;
- 4) Increased participation of local governments to prevent the expansion of slums and to implement the Earthquake Resistant Building administrations;
- 5) Increased public awareness regarding the implementation method for Earthquake Resistant Buildings.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.

BB-1519-R0-07**7. Indications of Financing Need**

Loan	:	USD	3,614,740,000
Grant	:	USD	0
Counterpart Funding	:	USD	180,737,000
Total Financing	:	USD	3,795,477,000

BB-1519-R0-07-01-0

1. Project Title	: Slum Improvement in Strategic Human Settlements Area (SISHA)
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 Housing b. Local Governments
5. Duration	: 60 months
6. Location	: Nationwide

7. Scope of Work

- Preparation of City/Regional Slum Alleviation and Prevention Strategy;
- Land Regularization for the urban slum settlement area;
- Improvement of site plan management for new urban settlement area;
- Provision and improvement of urban settlements' facilities, such as access roads, water services, sanitation infrastructures, drainages, solid waste managements, and fire protection services;
- Development of new urban settlement for low-income households;
- Training and advocacy for local governments.

8. Outputs

- Availability of City/Regional Slum Alleviation and Prevention Strategies;
- Implementation of Land Regularization for the urban slum settlement area;
- Availability of urban settlement facilities and site plans;
- Improved local government capacities and contributions in preventing and alleviating slum settlements.
- Alleviation of 4,400 hectare slum areas

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 2,100,000,000	- Central Government	: US\$ 105,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 2,100,000,000	Sub Total	: US\$ 105,000,000
TOTAL : US\$ 2,205,000,000			

BB-1519-R0-07-02-0

1. Project Title	: National Slum Upgrading
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 Housing b. Local Governments
5. Duration	: 60 months
6. Location	: Nationwide

7. Scope of Work

- Advocacy and technical assistance for the local community to live in hygienic and healthy life behaviour (PHBS) and improve their capacity in alleviating and preventing slum settlements;
- Land regularization for the urban slum settlement area;
- Training and advocacy activities for the local government institution in order to improve their capacity and contribution in preventing and alleviating slum settlements;
- Provision of Community Cash Transfer Program as a stimulant to improve community's self resilient, quality of settlement, and livelihood;
- Provision of technical assistance for local facilitators, experts, and consultants in order to improve their capacity in program planning, implementation, monitoring, and evaluation.

8. Outputs

- 100% Community-Based Organization (BKM) will be established;
- Local communities will be able to contribute to minimum 25% of total budget needed to improve the quality of their settlement;
- 12,067 urban ward/village will be able to implement neighborhood improvement activities, and urban slum neighborhood improvement activities;
- 380 local governments will have established City/Region Working Group of Housing and Settlements, and contribute to minimum 25% of total budget needed to develop urban settlements' facilities;
- Livelihood improvement activities will have been implemented in 100% targeted urban wards/village.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 1,052,640,000Grant : US\$ 0	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 52,632,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0
<hr/> <div>Sub Total : US\$ 1,052,640,000</div>	<hr/> <div>Sub Total : US\$ 52,632,000</div>
<div>TOTAL : US\$ 1,105,272,000</div>	

BB-1519-R0-07-03-0

1. Project Title	: Rural Settlement Infrastructure Development (RSID)
2. Program Title	: Slum Alleviation Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 60 months
6. Location	: Nationwide

7. Scope of Work

- a. Advocacy and technical assistances for local communities to improve hygiene and healthy life behaviour;
- b. Providing and improving the quality of rural settlements' facilities, such as access roads, water services, sanitation infrastructures, drainages, solid waste managements, and fire protection services;
- c. Training and advocacy activities for the local government institutions and local communities in order to improve their capacity, self-resilient, and contribution in preventing and alleviating slum.

8. Outputs

Development of rural infrastructures in 29,621 Ha, which supports the development of potential local economic.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	201,000,000	-	Central Government	: US\$	10,050,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 201,000,000				Sub Total : US\$ 10,050,000			
TOTAL : US\$ 211,050,000							

BB-1519-R0-07-04-0

1. Project Title	: Building Administration and Capacity Enforcement Development for Seismic Resilience
2. Program Title	: Slum Alleviation Program
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: Directorate General of Human Settlements, Ministry of Public Works and Housing
5. Duration	: 60 months
6. Location	: Nationwide

7. Scope of Work

- a. Development of manual guidelines for 455 cities/regencies;
- b. Improvement of public awareness of earthquake resilient buildings;
- c. Dissemination on methods of retrofitting for earthquake resilient buildings.
- d. Enhancing competencies of human resource in building administrations.

8. Outputs

- a. Availability of manual guidelines for 455 cities/regencies in Indonesia;
- b. Improved capacities and competencies for local governments in building administrations;
- c. Implementation of earthquake resilient guidelines in 455 targeted cities/regencies by 2019.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	261,100,000	-	Central Government	: US\$	13,055,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 261,100,000				Sub Total : US\$ 13,055,000			
TOTAL : US\$ 274,155,000							

Development and Management of Irrigation Program

BB-1519-R0-08

1. Program Title	: Development and Management of Irrigation Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

The availability of water resources to support food production has not been fulfilled due to inadequate irrigation networks. Therefore, the Medium-Term National Development Plan 2015-2019 has targets to build of primary, secondary, and tertiary irrigation network to irrigate one million hectares of agricultural land, and the rehabilitation of existing irrigation network to restore irrigation services on 3 million hectares of agricultural lands. To achieve these targets the government needs to build and repair irrigation networks in various regions.

4. Scope of Work

- 1) Preparation and review designs;
- 2) Construction of the primary, secondary, and tertiary irrigation networks;
- 3) Rehabilitation of irrigation networks;
- 4) Farmer empowerment;
- 5) Improvement of irrigation management systems;
- 6) Engineering services.

5. Outcomes

- 1) Increased agricultural areas that can be served by the primary, secondary, and tertiary irrigation networks;
- 2) Sustainability of irrigated agricultural areas;
- 3) Increased irrigation management performance;
- 4) Improved quality of irrigation networks

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	3,257,531,000
Grant	:	USD	0
Counterpart Funding	:	USD	345,159,500
Total Financing	:	USD	3,602,690,500

BB-1519-R0-08-01-0

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|-------------------------------|--|
| 1. Project Title | : Integrated Participatory Development and Management of Irrigation Project - Phase I |
| 1. Program Title | : Development and Management of Irrigation Program |
| 2. Executing Agency | : Ministry of Public Works and Housing |
| 3. Implementing Agency | : a. Directorate General of Water Resources, Ministry of Public Works and Housing
b. Ministry of Agriculture
c. Ministry of Home Affairs |
| 4. Duration | : 60 months |
| 5. Location | : Nationwide |
-

6. Scope of Work

- a. Supporting the integrated development of irrigation facilities with participatory approach, starting from Survey, Investigation, and Design (SID), construction, and O&M activities;
- b. Participatory planning and implementation of rehabilitation irrigation systems;
- c. Establishment and empowerment of WUAs;
- d. Enhancement of O&M officers;
- e. Implementation of irrigation asset management;
- f. Improvement of catchment areas for conservation through public consultations and disseminations;
- g. Farmer empowerment.

7. Outputs

- a. Increased agricultural productivity and profitability;
- b. Improved farmer capacities;
- c. Improved irrigation system infrastructure and management;
- d. Strengthened policy and institutional framework for irrigated agriculture;
- e. Improved management and project performance.

8. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	700,000,000	-	Central Government	: US\$	70,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 700,000,000				Sub Total : US\$ 70,000,000			
TOTAL : US\$ 770,000,000							

BB-1519-R0-08-02-0

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|-------------------------------|--|
| 1. Project Title | : Integrated Participatory Development and Management of Irrigation Project - Phase II |
| 2. Program Title | : Development and Management of Irrigation 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. Ministry of Agriculture
c. Ministry of Home Affairs |
| 5. Duration | : 72 months |
| 6. Location | : Nationwide |
-

7. Scope of Work

- a. Review design for each irrigation scheme;
- b. Detailed design or review design of the primary and secondary irrigation and drainage systems;
- c. SID of tertiary systems;
- d. Development and improvement of irrigation infrastructures and drainage systems;
- e. Soft component: i) Institutional strengthening of governments O&M organization, ii) Activation of Water Users' Association, iii) Improvement of water distribution and management, and iv) Irrigation asset management.

8. Outputs

- a. New development of irrigation system for more than 10,000 ha;
- b. Development/Modernization/Rounding Up/Improvement/Rehabilitation of the existing irrigation schemes;
- c. Strengthened of governments O&M irrigation organization, Water Users' Association;
- d. Improved water distribution and management;
- e. Improved implementation of irrigation asset management.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 500,000,000Grant : US\$ 0	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 50,000,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0
<hr/> <div>Sub Total : US\$ 500,000,000</div>	<hr/> <div>Sub Total : US\$ 50,000,000</div>
<div>TOTAL : US\$ 550,000,000</div>	

BB-1519-R0-08-03-0

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|-------------------------------|---|
| 1. Project Title | : The Urgent Rehabilitation of Strategic Irrigation for Western Region of Indonesia |
| 2. Program Title | : Development and Management of Irrigation 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 | : Banten and Lampung Province |
-

7. Scope of Work

- a. Rehabilitation and modernization of irrigation facilities;
- b. Development and improvement of irrigation and drainage systems;
- c. Capacity building on O&M implementation.

8. Outputs

- a. Availability of modern irrigation and drainage system to support agricultural activities;
- b. Improved irrigation and drainage systems, and new irrigation system;
- c. Improved O&M implementation and strengthened capacity of WUA and FWUA in adopting Participation Irrigation Management.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	195,778,000	-	Central Government	: US\$	27,149,500
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total		: US\$	195,778,000	Sub Total		: US\$	27,149,500
TOTAL : US\$ 222,927,500							

BB-1519-R0-08-04-0

1. Project Title	: Rentang Irrigation Modernization Project (RIMP)
2. Program Title	: Development and Management of Irrigation 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	: 97 months
6. Location	: West Java Province

7. Scope of Works

- a. Detailed design of the secondary irrigation and drainage systems;
- b. SID of tertiary systems;
- c. Modernization/Upgrading works of the existing barrage, main & secondary irrigation systems, drainage systems, long storage work;
- d. Construction of tele-metering system for water distribution control;
- e. Tertiary system development;
- f. Construction and operation of Modernization Demonstration Scheme;
- g. Soft components i) Institutional strengthening of government O&M organization, ii) Activation of Water Users' Association, iii) Improvement of water distribution/management and iv) Asset management.

8. Outputs

- a. Modernization/Upgrading of the existing Rentang Barrage: 1 nos;
- b. Modernization/Upgrading of the existing Main Canal, approximately 127 km;
- c. Modernization/Upgrading of the existing Secondary Canal, approximately 559 km;
- d. Improvement of drainage system, approximately 39 km;
- e. Improvement of long storage, approximately 9 km;
- f. Construction of tele-metering system for water distribution control: 44 stations;
- g. Tertiary system development, approximately 36,000 ha;
- h. Construction and operation of Modernization Demonstration Scheme in 1,000 ha;
- i. Strengthened of governments O&M irrigation organization, Water Users' Association;
- j. Improved water distribution and management;
- k. Improved implementation of irrigation asset management.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 480,000,000	- Central Government	: US\$ 48,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 480,000,000	Sub Total	: US\$ 48,000,000
TOTAL : US\$ 528,000,000			

BB-1519-R0-08-05-0

1. Project Title	: Komering Irrigation Project Stage III
2. Program Title	: Development and Management of Irrigation 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	: South Sumatera Province

7. Scope of Works

- a. Review design of primary, secondary and tertiary irrigation system in Lempuing scheme;
- b. Civil works for primary, secondary and tertiary irrigation system in Lempuing scheme;
- c. Civil works for improvement of existing irrigation facilities;
- d. Soft component for strengthening of irrigation water management in Lempuing scheme;
- e. Review of overall development plan of Komering Irrigation.

8. Outputs

- a. Development of Lempuing primary, secondary, and tertiary irrigation system:
 - i) Secondary canals and sub-secondary canals, approximately 85 km;
 - ii) Tertiary system development, approximately 8,500 ha;
- b. Improved existing irrigation facilities of headworks, primary canal, and secondary canals;
- c. Strengthened irrigation water management;
- d. Reviewed report of overall development plan of Komering irrigation, including Komering Multi-purpose dam.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	120,000,000	-	Central Government	: US\$	12,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 120,000,000				Sub Total : US\$ 12,000,000			
TOTAL : US\$ 132,000,000							

BB-1519-R0-08-06-0

1. Project Title	: Irrigation Development in North Sumatera
2. Program Title	: Development and Management of Irrigation 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	: North Sumatera Province

7. Scope of Works

Implementation of irrigation development in Sei Asahan, Sei Silau, Batahan dan Batang Toru schemes, as follow:

- a. Land acquisition and relocation;
- b. Preparation of procurement process;
- c. Construction of headworks, primary, secondary and tertiary networks;
- d. Development of Operation and Maintenance manual.

8. Outputs

- a. Development and improvement of irrigation system in North Sumatera Province, for more than 100,000 ha;
- b. Availability of O&M Manual.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding 		<ul style="list-style-type: none"> • Counterpart Funding 	
- Loan	: US\$ 350,000,000	- Central Government	: US\$ 35,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 350,000,000	Sub Total	: US\$ 35,000,000
TOTAL : US\$ 385,000,000			

BB-1519-R0-08-07-0

1. Project Title	: Integrated Participatory Development and Management of Lhok Guci and Peureulak Irrigation Project
2. Program Title	: Development and Management of Irrigation
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	: Aceh Province

7. Scope of Works

- Sustainable integrated development of irrigated facilities with participative SID, construction and operation maintenance;
- Construction of weir, primary, secondary and tertiary irrigation system;
- Establishment and empowerment of WUA's;
- Strengthening of Operation and Maintenance of irrigation system;
- Implementation of irrigation asset management;
- Improvement of on-farm irrigation;
- Catchment area improvement for water resources conservation through public consultation, socialization and dissemination.

8. Outputs

- Increased agricultural productivity;
- Improved irrigation system infrastructure, approximately 18,542 Ha (Lhok Guci) and 5,000 Ha (Peureulak).
- Improved participatory irrigation management;
- Improved catchment area condition.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 			<ul style="list-style-type: none"> Counterpart Funding 		
-	Loan	: US\$ 161,298,000	-	Central Government	: US\$ 24,195,000
-	Grant	: US\$ 0	-	Regional Government	: US\$ 0
-			-	State-Owned Enterprise	: US\$ 0
-			-	Others	: US\$ 0
Sub Total : US\$ 161,298,000			Sub Total : US\$ 24,195,000		
TOTAL : US\$ 185,493,000					

BB-1519-R0-08-08-0

1. Project Title	: Modernization Strategic Irrigation Project of Indonesia (MSIP)
2. Program Title	: Development and Management of Irrigation 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	: Nationwide

7. Scope of Work

- a. Review of system planning of each scheme;
- b. Detailed design or review design of the primary & secondary irrigation/ drainage systems;
- c. Development of SID tertiary systems;
- d. Modernization/upgrading/ rehabilitation works of the existing barrage, main & secondary irrigation systems, drainage systems;
- e. Soft component:
 - i) Institutional strengthening of government O&M organization,
 - ii) Activation of Water Users' Association,
 - iii) Improvement of water distribution/ management; and
 - iv) Asset management.

8. Outputs

- a. Modernization/ upgrading/ rehabilitation of the existing headworks, irrigation, and drainage system;
- b. Improvement of irrigation system, approximately 198,459 Ha including extension of 32,586 Ha;
- c. Availability of SID tertiary system;
- d. Strengthened of governments O&M irrigation organization, Water Users' Association;
- e. Improved water distribution and management;
- f. Improved implementation of irrigation asset management.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 278,355,000 - Grant : US\$ 0 		<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 28,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 - Sub Total : US\$ 28,000,000 	
<hr/> Sub Total : US\$ 278,355,000			
TOTAL : US\$ 306,355,000			

BB-1519-R0-08-09-0

1. Project Title	: Urgent Rehabilitation of Irrigation Project in Indonesia (URIP)
2. Program Title	: Development and Management of Irrigation 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	: 84 months
6. Location	: North Sumatera, Lampung, Riau, Bengkulu, and South Kalimantan Province

7. Scope of Work

- a. Review of system planning of each scheme;
- b. Detailed design or review design of the primary & secondary irrigation drainage systems
- c. Development of SID tertiary systems;
- d. Rehabilitation/upgrading/rounding-up extension works of the existing barrage, main & secondary irrigation systems, drainage systems;
- e. Soft component, including: i) Institutional strengthening of government O&M organization, ii) Activation of Water Users' Association, iii) Improvement of water distribution/ management, and iv) Asset management.

8. Outputs

- a. Modernization/Improvement/Rehabilitation of the existing irrigation schemes: 11 irrigation schemes in 5 (five) provinces of North Sumatera, Riau, Bengkulu, Lampung and South Kalimantan;
- b. Improvement of irrigation system: 67,742 Ha consisting of rehabilitation/improvement, approximately 33,753 Ha and rounding-up & extension of 33,989 Ha;
- c. Rehabilitation/Improvement of the existing head works in 5 locations;
- d. Construction of new dam in 1 location, and head works in 4 locations;
- e. Rehabilitation upgrading of the existing irrigation canals by lining: 265 km;
- f. Recovery of original function by de-silting of main & secondary irrigation canals: 385 km;
- g. Construction of new irrigation canals (approximately 405 km), drainage system (approximately 102 km), and tertiary system (approximately 67,000 Ha);
- h. Improved drainage system, approximately 90 km;
- i. Strengthened of governments O&M irrigation organization, Water Users' Association;
- j. Improved water distribution and management, and implementation of irrigation asset management.

BB-1519-R0-08-09-0**9. Project Cost**

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
-	Loan : US\$	272,100,000	- Central Government : US\$ 40,815,000
-	Grant : US\$	0	- Regional Government : US\$ 0
-			- State-Owned Enterprise : US\$ 0
-			- Others : US\$ 0
Sub Total : US\$		272,100,000	Sub Total : US\$ 40,815,000
TOTAL : US\$		312,915,000	

BB-1519-R0-08-10-0

1. Project Title	: Revitalization of Groundwater Irrigation in Indonesia
2. Program Title	: Development and Management of Irrigation 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	: 36 months
6. Location	: Nationwide

7. Scope of Work

- a. Review design of the existing groundwater irrigation systems;
- b. Construction works, including repairing and rehabilitation of pumping houses, replacement of pump and motor engines;
- c. Public consultation.

8. Outputs

- a. Rehabilitation of 772 wells, and water distribution pipes, approximately 1,618 km;
- b. Repaired pumping houses;
- c. Replaced pump and motor engines.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	100,000,000	-	Central Government	: US\$	10,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total		: US\$	100,000,000	Sub Total		: US\$	10,000,000
TOTAL : US\$ 110,000,000							

BB-1519-R0-08-11-0

1. Project Title	: Engineering Service for Irrigation and Low Land Development Project
2. Program Title	: Development and Management of Irrigation 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	: Nationwide

7. Scope of Work

- Conducting analysis in terms of irrigation and low land (master plan and feasibility for each irrigation scheme) and procurement plans;
- Conducting analysis in term of detailed design, land acquisition, resettlement plan and environmental impact assessment;
- Implementing the program planning, project funding analysis and tender document preparation.

8. Outputs

- Detailed design with all supported documents, including Land Acquisition and Resettlement Action Plan (LARAP) and Environment Impact Assessment (EIA);
- Implementation plans and standard procurement plans;
- Availability of project management and funding analysis.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 100,000,000	- Central Government	: US\$ 0
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 100,000,000	Sub Total	: US\$ 0
TOTAL : US\$ 100,000,000			

Provision and Management of Bulk Water Supply Program

BB-1519-R0-09

1. Program Title	: Provision and Management of Bulk Water Supply Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

Water resources development is aimed to increase the functions of water to fulfill the needs of raw water for household and other purposes. The most common problem that occurs in several regions in Indonesia is the limited sources of bulk water for drinking water, agriculture, fisheries, and other needs. Moreover, the water supply from reservoirs is relatively low, with only 11 percent of the irrigation area are irrigated by the reservoirs and ponds. While, the other sources of bulk water comes from free intakes in streams and springs where the reliability of these sources are depends on river discharge that decreases in the dry season.

The availability of bulk water from reservoirs, ponds, and rivers (free intake) are insufficient to meet the water demand to overcome the population growth, human activities, and inefficient water usage. Several factors causing this problem are the lack of water supply infrastructures, decreased water discharge and water quality of water resources. Inadequate of bulk water supply led to high exploitation of ground water to meet the needs of drinking water and basic daily needs. In 2012 no less than 55.5 per cent of households in Indonesia still relies on groundwater for drinking water.

The other problem related to the quality of water supply in Indonesia is the high water pollution from household, urban and industrial pollution, as well as from agricultural sector which use high level of of fertilizers and pesticides. The utilization of alternative sources of raw water, such as rain water and recycling water has not been widely used. On the other hand, water treatment and sanitation services are not yet in conformity with the safeguard drinking water that must comply with four aspects (quantity, quality, continuity and affordability).

Therefore, the bulk water infrastructures need to be maintained and developed. This can be done through several efforts, such as increasing environmental conservation to maintain the availability and quantity of water, building raw water network in order to ease the access of raw water, and increasing the role of communities and private entities to maintain the quality of raw water.

4. Scope of Work

- 1) Development of bulk water supply infrastructures;
- 2) Development of alternative sources of raw water infrastructures;
- 3) Conservation of catchment areas, including introduction of appropriate forestry and horticulture activities especially in critical areas;
- 4) Establishment of raw water channels (network);
- 5) Consultant supervision;
- 6) Operation and maintenance;
- 7) Analysis of the raw water supply system.

BB-1519-R0-09**5. Outcomes**

- 1) Increased availability of bulk water supply;
- 2) Reduced extraction of ground water, soil erosion, and sedimentation rate;
- 3) Improved groundwater recharge;
- 4) Increased quality of planning for the construction of the bulk water network system and its supporting facilities and mechanisms for procurement of goods/ services;

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	623,862,000
Grant	:	USD	0
Counterpart Funding	:	USD	201,074,000
Total Financing	:	USD	824,936,000

BB-1519-R0-09-01-0

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- | | |
|-------------------------------|---|
| 1. Project Title | : Integrated Citarum Water Resources Management Investment Program II |
| 2. Program Title | : Provision and Management of Bulk Water Supply 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. Directorate General of Regional Development, Ministry of Home Affairs
c. Directorate General of Infrastructure and Agricultural Inputs, Ministry of Agricultural |
| 5. Duration | : 60 months |
| 6. Location | : West Java Province |
-

7. Scope of Work

- a. Development of bulk water sources and infrastructures for greater Bandung and reducing dependency on groundwater;
- b. Soil conservation in upper watershed areas, especially in crucial catchment areas;
- c. Introduce suitable horticulture and forestry activities in critical, erosion prone lands around Bandung in order to reduce soil erosion, conserve water resources and improve bulk water supply.

8. Outputs

- a. Constructed new raw water supply systems for approximately 1.5 m³/s;
- b. Improved conditions of watershed areas;
- c. Improved upper watershed management.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 200,000,000Grant : US\$ 0	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 20,000,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0
<hr/> <div>Sub Total : US\$ 200,000,000</div>	<hr/> <div>Sub Total : US\$ 20,000,000</div>
<div>TOTAL : US\$ 220,000,000</div>	

BB-1519-R0-09-02-0

1. Project Title	: Karian Dam-Serpong Water Conveyance and Supply System Project
2. Program Title	: Provision and Management of Bulk Water Supply 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	: Banten and Jakarta City

7. Scope of Work

- Construction of raw water infrastructure for Domestic, Municipal and Industry (DMI) and irrigation use;
- Consultant Supervision;
- Conducting operation and maintenance.

8. Outputs

Availability of bulk water supply, approximately 14.6 m³/s (10.6 m³/s for DMI and 4.0 m³/s for irrigation uses).

9. Project Cost

<ul style="list-style-type: none">Foreign Funding			<ul style="list-style-type: none">Counterpart Funding		
-	Loan	: US\$ 373,862,000	-	Central Government	: US\$ 181,074,000
-	Grant	: US\$ 0	-	Regional Government	: US\$ 0
			-	State-Owned Enterprise	: US\$ 0
			-	Others	: US\$ 0
<hr/> Sub Total : US\$ 373,862,000			<hr/> Sub Total : US\$ 181,074,000		
TOTAL : US\$ 554,936,000					

BB-1519-R0-09-03-0

1. Project Title	: Engineering Service for Bulk Water and Water Supply Development Project
2. Program Title	: Provision and Management of Bulk Water Supply 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	: Nationwide

7. Scope of Work

- Conducting analysis of bulk water supply;
- Conducting analysis of operational and maintenance including the supporting facilities;
- Conducting analysis in term of detailed design, land acquisition, resettlement plan and environmental impact assessment;
- Implementing the program planning, project funding analysis and tender document preparation.

8. Outputs

- Availability of survey and investigation for basic concept of priority detailed design construction;
- Availability of system planning of bulk and water supply;
- Availability of detailed design with all supported documents, including LARAP and EIA;
- Availability of implementation plan and standard procurement plan.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 			<ul style="list-style-type: none"> 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
Sub Total : US\$ 50,000,000			Sub Total : US\$ 0		
TOTAL : US\$ 50,000,000					

Dam Development Program

BB-1519-R0-10

1. Program Title	: Dam Development Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

Water security is one of the Medium-Term National Development Plan 2015-2019 priorities. This priority can be achieved through several efforts such as increasing irrigation systems, maintain the availability of water resources, rehabilitation and build new reservoirs (dams), produce electricity as well. Construction and rehabilitation of reservoirs are aimed at improving water security by increasing the ability to store water, both stored naturally water reservoirs.

The availability of raw water coming from existing reservoirs and ponds are not capable to meet the increasing water demand due to increasing population growth, human activities, and inefficient water management. On the other hand, the reservoirs are not only used as water resources and storage, but also for power generation, irrigation, and flood control. Therefore, the construction and rehabilitation of reservoirs are urgently needed.

4. Scope of Work

- 1) Preparation and review design;
- 2) Construction and rehabilitation of dam infrastructures, and its supporting facilities;
- 3) River deviation;
- 4) Sediment disaster;
- 5) Engineering services.

5. Outcomes

- 1) Increased water supply for society, industry, and agriculture;
- 2) Increased potential for hydropower development;
- 3) Reduced flood's intensity;
- 4) Increased the quality of dam development.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	2,133,750,000
Grant	:	USD	0
Counterpart Funding	:	USD	963,200,000
Total Financing	:	USD	3,096,950,000

BB-1519-R0-10-01-0

1. Project Title	: Jambo Aye Multipurpose Dam Project
2. Program Title	: Dam Development 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	: Aceh Province

7. Scope of Work

- Construction of multipurpose dam with its supporting facilities, including pavement works for access road;
- Construction of Hydro Power Plant;
- Water resources conservation, environment preservation, and flood control works.

8. Outputs

- Multipurpose dam and its supporting facilities;
- Hydropower plant facility for around 106 MW;
- Increased of irrigation areal for around 10,000 Ha;
- Fulfillment of raw water demand for DMI in Aceh Utara Regency and Lhokseumawe Municipality;
- Decreased flood intensity in Aceh Utara Regency and surrounding area.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding				<ul style="list-style-type: none">Counterpart Funding			
-	Loan	: US\$	662,200,000	-	Central Government	: US\$	460,700,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-		: US\$		-	State-Owned Enterprise	: US\$	0
-		: US\$		-	Others	: US\$	0
Sub Total : US\$ 662,200,000				Sub Total : US\$ 460,700,000			
TOTAL : US\$ 1,122,900,000							

BB-1519-R0-10-02-0

1. Project Title	: Komering Multipurpose Dam Project - Phase II
2. Program Title	: Dam Development 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	: East Ogan Komering Ulu, Ogan Komering Ilir, and Way Kanan District

7. Scope of Work

- Construction of Komering Multipurpose Dam with its supporting facilities;
- Construction of hydraulic power facilities ;
- Provision of soft component for strengthening of operation and maintenance of dam facilities;
- Water resources conservation, environment preservation, and flood control works.

8. Outputs

- Availability of Komering Multipurpose Dam with gross water storage capacity: 110 million cm³;
- Availability of hydroelectricity of 40 MW;
- Strengthening of dam operation and maintenance;
- Reduced flood discharge up to 0.5 m³/sec.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 200,000,000	- Central Government	: US\$ 20,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 200,000,000	Sub Total	: US\$ 20,000,000
TOTAL : US\$ 220,000,000			

BB-1519-R0-10-03-0

1. Project Title	: Pelosika Multipurpose Dam Construction Project
2. Program Title	: Dam Development 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	: South East Sulawesi Province

7. Scope of Work

- Construction of Pelosika Multipurpose Dam with its supporting facilities;
- Construction of hydro power facilities, including electrical works;
- Operation & maintenance facilities.

8. Outputs

- Availability of raw water of 0.75 m³/s, to irrigate approximately 16,358 Ha agricultural areas;
- Available for hydroelectricity 21 MW;
- Konaweha Watershed Flood Control of 10,359 ha;
- Sustainable O&M of Pelosika Multipurpose Dam.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 			<ul style="list-style-type: none"> Counterpart Funding 		
-	Loan	: US\$ 200,000,000	-	Central Government	: US\$ 170,000,000
-	Grant	: US\$ 0	-	Regional Government	: US\$ 0
-			-	State-Owned Enterprise	: US\$ 0
-			-	Others	: US\$ 0
Sub Total : US\$ 200,000,000			Sub Total : US\$ 170,000,000		
TOTAL : US\$ 370,000,000					

BB-1519-R0-10-04-0

1. Project Title	: Lambakan Dam Project
2. Program Title	: Dam Development 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	: East Kalimantan Province

7. Scope of Works

- a. Development of Lambakan Dam to provide irrigation water;
- b. Construction of hydro power facilities;
- c. Construction of flood embankment in Telake watershed.

8. Outputs

- a. Availability of Lambakan Dam to irrigate approximately 18,000 ha of agricultural areas, and to support Hydro Power Plant;
- b. Availability of Hydro Electric Power Plant (HEPP) of 15 MW, with Q = 36.40 m³/sec;
- c. Increased supply of raw water for 12 m³/sec for Pasir District, North Penajam Pasir District, and Balikpapan City;
- d. Flood control in the Telake watershed up to 30%;

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding <ul style="list-style-type: none"> Loan : US\$ 258,000,000 Grant : US\$ 0 		<ul style="list-style-type: none"> Counterpart Funding <ul style="list-style-type: none"> Central Government : US\$ 227,000,000 Regional Government : US\$ 0 State-Owned Enterprise : US\$ 0 Others : US\$ 0 	
Sub Total	: US\$ 258,000,000	Sub Total	: US\$ 227,000,000
TOTAL : US\$ 485,000,000			

BB-1519-R0-10-05-0

1. Project Title	: Jenelata Dam Construction Project
2. Program Title	: Dam Development 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	: South Sulawesi Province

7. Scope of Work

- a. Construction of main dam and appurtenants structures;
- b. Access road rehabilitations;
- c. Construction of hydropower facilities to support electricity in Gowa district;
- d. Rehabilitation and improvement of irrigation systems;
- e. Consulting Services.

8. Outputs

- a. Availability of main dam with reservoir 223 million m³ and its supporting facilities;
- b. Availability of hydropower facilities to support electricity in Gowa district and Makassar City;
- c. Increased agriculture productivity with new irrigation system of 24,400 ha;
- d. Reduced flood intensity in Gowa District and its surrounding areas.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	200,000,000	-	Central Government	: US\$	20,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-		: US\$		-	State-Owned Enterprise	: US\$	0
-		: US\$		-	Others	: US\$	0
Sub Total : US\$ 200,000,000				Sub Total : US\$ 20,000,000			
TOTAL : US\$ 220,000,000							

BB-1519-R0-10-06-0

1. Project Title	: Bonehulu Dam Construction Project
2. Program Title	: Dam Development 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	: Gorontalo Province

7. Scope of Work

- a. Development of Bonehulu Dam to provide irrigation water;
- b. Construction of hydro power facilities;
- c. Watershed Conservation;
- d. Development of irrigation system.

8. Outputs

- a. Availability of multipurpose dam and its supporting facilities;
- b. Developed facilities for Hydroelectric Power Plant of 9.99 MW;
- c. Increased availability of water;
- d. Availability of irrigation water and conserved water in the dry season, approximately 6,800 Ha.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 128,250,000	- Central Government	: US\$ 21,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 128,250,000	Sub Total	: US\$ 21,000,000
TOTAL : US\$ 149,250,000			

BB-1519-R0-10-07-0

1. Project Title	: Ladongi Dam Construction Project
2. Program Title	: Dam Development 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	: South East Sulawesi Province

7. Scope of Work

- a. Construction of Ladongi Dam and its supporting facilities;
- b. Construction of hydropower facilities to support electricity;
- c. Rehabilitation and improvement of irrigation systems;
- d. Consulting Services.

8. Outputs

- e. Availability of raw water up to 0.08 m³/sec;
- f. Availability of electricity of 0.08 MW;
- g. New irrigation system (5,212 ha) and availability existing (2,212 ha);
- h. Reduced flood intensity in East Kolaka District and other surrounding areas.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	70,000,000	-	Central Government	: US\$	7,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 70,000,000				<hr/> Sub Total : US\$ 7,000,000			
TOTAL : US\$ 77,000,000							

BB-1519-R0-10-08-0

1. Project Title	: Kuwil Kawangkoan Dam Construction Project
2. Program Title	: Dam Development 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	: North Sulawesi Province

7. Scope of Work

- Construction of a multipurpose dam and supporting facilities;
- Construction of hydropower facilities.
- Perform conservation of water resources, environmental protection, and flood control;

8. Outputs

- Provision of raw water for the residents of North Minahasa District and raw water requirement for the Bitung Special Economic Region total discharge of 4.32 m³ / sec, and Bitung Industrial Region;
- Micro power plants with an installed capacity of 1.3 MW;
- Reducing the threat of flooding in the city of Manado and the surrounding areas to discharge flood return period flood Q₂₅ with reduction of 275 m³ / sec;

9. Project Cost

<ul style="list-style-type: none">Foreign Funding				<ul style="list-style-type: none">Counterpart Funding			
-	Loan	: US\$	110,000,000	-	Central Government	: US\$	11,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
				-	State-Owned Enterprise	: US\$	0
				-	Others	: US\$	0
<hr/>				<hr/>			
	Sub Total	: US\$	110,000,000		Sub Total	: US\$	11,000,000
TOTAL : US\$ 121,000,000							

BB-1519-R0-10-09-0

1. Project Title	: Lompatan Harimau Dam Construction Project
2. Program Title	: Dam Development 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	: Rokan District, Riau Province

7. Scope of Work

- Construction a multipurpose dam and its supporting facilities;
- Perform conservation of water resources, environmental protection, and flood control;
- Construction a hydropower facility.

8. Outputs

- Availability of a multipurpose dam and its supporting facilities;
- Availability of irrigation water to irrigate 4,000 ha;
- Hydropower plants with an installed capacity of 74.40 MW.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	152,100,000	-	Central Government	: US\$	26,500,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-	Others	: US\$	0	-			
<hr/> Sub Total : US\$ 152,100,000				<hr/> Sub Total : US\$ 26,500,000			
TOTAL : US\$ 178,600,000							

BB-1519-R0-10-10-0

1. Project Title	: Engineering Service for Dam Multipurpose Development Project
2. Program Title	: Dam Development 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	: Nationwide

7. Scope of Work

- a. Conducting technical analysis for dam construction and its facilities, operation and maintenance, as well as procurement mechanism;
- b. Conducting analysis of detailed design, land acquisition, resettlement plan and environmental impact assessment;
- c. Implementing the program planning, project funding analysis and tender document preparation.

8. Outputs

- a. Detailed design with all supporting documents, including LARAP and EIA;
- b. Implementation plan and standard procurement plan;
- c. Project management and funding analysis.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 100,000,000	- Central Government	: US\$ 0
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 100,000,000	Sub Total	: US\$ 0
TOTAL : US\$ 100,000,000			

BB-1519-R0-10-11-0

1. Project Title	: Additional Loan for Jatigede Dam Project 2
2. Program Title	: Dam Development 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	: 12 months
6. Location	: Sumedang District, West Java Province

7. Scope of Work

Construction of Jatigede Main Dam, including spillway, diversion tunnel, irrigation outlet, power waterway, and road relocation.

8. Outputs

- a. Availability of Jatigede Dam;
- b. Availability of water supply by 59.63 m³/s to irrigate agricultural areas;
- c. Availability of hydro power electricity of 110 MW;
- d. Reduced flood discharge.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 			<ul style="list-style-type: none"> Counterpart Funding 		
-	Loan	: US\$ 53,200,000	-	Central Government	: US\$ 0
-			-	Regional Government	: US\$ 0
-	Grant	: US\$ 0	-	State-Owned Enterprise	: US\$ 0
-			-	Others	: US\$ 0
Sub Total : US\$ 53,200,000			Sub Total : US\$ 0		
TOTAL : US\$ 53,200,000					

Mitigation of Water Hazards Program

BB-1519-R0-11

1. Program Title	: Mitigation of Water Hazards Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

Improved water security is one of the national development goals in the Medium-Term National Development Plan 2015-2019. A policy direction and strategy to achieve this goal is to increase the community resilience in water damage mitigation, including from climate change. This program will support the Government of Indonesia and communities to better managing and mitigating of the flood risks caused by overflowing rivers, rain, and volcanic eruptions, as well as reduce the level of economic and social losses caused. In addition, the program will also support the conservation of coastal areas , shoreline protection , and restoration of coral reefs.

4. Scope of Work

- 1) Construction works;
- 2) Consulting Services;
- 3) Strengthening conservation activities;
- 4) Providing public information on the risks of floods;
- 5) Improving river capacity to reduce flood damage;
- 6) Increasing community preparedness of flood emergency;
- 7) Empowering Public Service Agency
- 8) Flood and coastal management;
- 9) Sediment disaster mitigation;
- 10) Engineering services.

5. Outcomes

Increased community resilience in reducing the risks of water degradation.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	1,152,636,000
Grant	:	USD	0
Counterpart Funding	:	USD	149,840,000
Total Financing	:	USD	1,302,476,000

BB-1519-R0-11-01-0

1. Project Title	: Lower Solo River Improvement Project Phase II
2. Program Title	: Mitigation of Water Hazards 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	: Central and East Java Province

7. Scope of Work

- a. Construction works, including levee embankment, parapet wall, revetment, sluiceway, road bridges, short-cut channels and other related structures.
- b. Engineering Services.
- c. Construction supervision.

8. Outputs

Availability of flood control at Lower Solo River basin

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	155,836,000	-	Central Government	: US\$	22,500,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-	Others	: US\$	0	-			
<hr/> Sub Total : US\$ 155,836,000				<hr/> Sub Total : US\$ 22,500,000			
TOTAL : US\$ 178,336,000							

BB-1519-R0-11-02-0

1. Project Title	: Comprehensive Counter Measure for Sediment and Flood Problems in South Sulawesi Province
2. Program Title	: Mitigation of Water Hazards 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	: South Sulawesi Province

7. Scope of Work

- Rehabilitation of water intake of Bili-Bili Dam;
- Construction of Giant Sand Trap facility at the edge of Bili-Bili Reservoir;
- Construction of a series of sediment restrain facility at the Exit of Caldera for caldera collapsed mitigation.

8. Outputs

- Availability of Water Selectable Intake at Bili-Bili Dam;
- Availability of Giant Sand Trap;
- Availability of Sediment Control facilities.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 108,100,000	- Central Government	: US\$ 3,900,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 108,100,000	Sub Total	: US\$ 3,900,000
TOTAL : US\$ 112,000,000			

BB-1519-R0-11-03-0

1. Project Title	: Bali Beach Conservation Project – Phase II
2. Program Title	: Mitigation of Water Hazards 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	: 65 months
6. Location	: Bali Province

7. Scope of Work**a. Beach Conservation at East Coast Area****(1) North Sanur to Kusamba, including:**

- Determination of set back line based on the predicted future shoreline position;
- Combination of permeable-type revetment and offshore breakwaters (including submerged breakwaters) at high resident and infrastructure area;
- Construction of groins and offshore breakwaters (including submerged breakwaters) at tourism area to maintain the existing sandy beach ;
- Relocation of existing permeable type revetment taking into account of further beach recession;
- Construction of walkway ;
- Capacity building on beach maintenance and management;
- Establishment of related regulations on beach utilization;
- Public education on coastal environment and management.

(2) Candidasa, including:

- Modification of existing seawalls to enhance easy access to the beach;
- Modification and demolish of existing groins and offshore breakwaters to enhance the function to prevent sand outflow;
- Reef flat restoration (with coral transplantation, if feasible);
- Construction of walkway;
- Capacity building on beach maintenance and management;
- Establishment of related regulations on beach utilization;
- Public education on coastal environment and management.

b. Beach conservation at North Kuta-Legian-Seminyak-Canggu, including:

- Construction of walkway to identify the beach conserve area (set back line);
- Improvement of existing seawalls and revetments from impermeable to permeable type;
- Capacity building on beach maintenance and management;
- Establishment of related regulations on beach utilization;
- Public education on coastal environment and management.

BB-1519-R0-11-03-0**8. Outputs**

- a. Beach conservation and land protection of the target sites;
- b. Construction of coastal measure structure (groin, headlands, revetment, breakwater);
- c. Construction of walkway along the beach to provide easy access to the beach;
- d. Restoration of reef flat.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding				<ul style="list-style-type: none">Counterpart Funding			
-	Loan	: US\$	150,000,000	-	Central Government	: US\$	15,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 150,000,000				<hr/> Sub Total : US\$ 15,000,000			
TOTAL : US\$ 165,000,000							

BB-1519-R0-11-04-0

-
- 1. Project Title** : Urgent Disaster Reduction of Mt. Sinabung, Mt. Semeru, Mt. Kelud, Mt. Lokon, and Mt. Gamalama
 - 2. Program Title** : Mitigation of Water Hazards 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** : North Sumatera , East Java, North Sulawesi, North Maluku Province
-

7. Scope of Work

- a. Civil works and provision of equipment, including: implementation of construction and procurement of heavy equipment;
- b. Empowerment of the institutional strengthening of Public Services Agency;
- c. Consulting services.

8. Outputs

- a. Availability of Sabo Dam facilities;
- b. Reduced damage caused by disasters of mount eruption.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding 				<ul style="list-style-type: none"> • Counterpart Funding 			
-	Loan	: US\$	260,000,000	-	Central Government	: US\$	26,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-	Others	: US\$	0	-			
<hr/> Sub Total : US\$ 260,000,000				<hr/> Sub Total : US\$ 26,000,000			
TOTAL : US\$ 286,000,000							

BB-1519-R0-11-05-0

1. Project Title	: Urban Flood Control System Improvement in Selected Cities Phase II
2. Program Title	: Mitigation of Water Hazards 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	: Riau, East Kalimantan, West Java, Aceh, and West Kalimantan Province

7. Scope of Work

- a. Construction of dikes, pumps and doors;
- b. Rehabilitation of Siak tributary;
- c. Normalization of channels;
- d. Improvement of Klandasan Big and Small tributaries.

8. Outputs

- a. Availability of dikes along the 6.5 km, 2 pumps and doors
- b. Rehabilitated Siak tributary along 2.0 km, and 5.6 km protective levees along the Siak River;
- c. Normalized channels with a total length of 8.2 km;
- d. Improved river infrastructures and facilities such as Siak River, Kasunean River, Klandasan River (with total length of 4.35 miles).
- e. Enhanced capacity of the river and drainage system in the cities to drain the rain water from the selected city areas;

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 120,000,000	- Central Government	: US\$ 12,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 120,000,000	Sub Total	: US\$ 12,000,000
TOTAL : US\$ 132,000,000			

BB-1519-R0-11-06-0

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- | | |
|-------------------------------|---|
| 1. Project Title | : Flood Management in Selected River Basins |
| 2. Program Title | : Mitigation of Water Hazards 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. Directorate General of Regional Development, Ministry of Home Affairs
c. Directorate General of Infrastructure and Agricultural Inputs, Ministry of Agricultural |
| 5. Duration | : 72 months |
| 6. Location | : Banten and Maluku Province |
-

7. Scope of Work

- a. Strengthening of watershed conservation activities, including farm land management and sustainable agriculture practices;
- b. Enhancement of basin data and information
- c. Enhancement of basin information dissemination, planning and coordination
- d. Construction of flood control infrastructure;
- e. Improvement of run off and erosion control
- f. Enhancement capacity for community flood risk management
- g. Improving capacity of the government in the flood subsector.
- h. DED and construction supervision
- i. Project management support, including independent monitoring and evaluation

8. Outputs

- a. Enhanced planning for flood risk management
- b. Improved land management and upgraded flood infrastructures;
- c. Enhanced capacity for community-based flood risk management (CBFRM);
- d. Improved policy, coordination and capacity at national level.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	108,700,000	-	Central Government	: US\$	50,440,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 108,700,000				Sub Total : US\$ 50,440,000			
TOTAL : US\$ 159,140,000							

BB-1519-R0-11-07-0

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- | | |
|-------------------------------|--|
| 1. Project Title | : Flood Management in Selected River Basins Sector Project
(Additional financing) |
| 2. Program Title | : Mitigation of Water Hazards 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. Directorate General of Regional Development, Ministry of
Home Affairs
c. Directorate General of Infrastructure and Agricultural Inputs,
Ministry of Agricultural |
| 5. Duration | : 60 months |
| 6. Location | : Nationwide |
-

7. Scope of Work

- a. Strengthening of watershed conservation activities, including farm land management and sustainable agriculture practices;
- b. Enhancement of basin data and information
- c. Enhancement of basin information dissemination, planning and coordination
- d. Construction of flood control infrastructure;
- e. Improvement of run off and erosion control
- f. Enhancement capacity for community flood risk management
- g. Improving capacity of the government in the flood subsector.
- h. DED and construction supervision
- i. Project management support, including independent monitoring and evaluation

8. Outputs

- a. Enhanced planning for flood risk management
- b. Improved land management and upgraded flood infrastructures;
- c. Enhanced capacity for community-based flood risk management (CBFRM);
- d. Improved policy, coordination and capacity at national level.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 200,000,000Grant : US\$ 0			<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 20,000,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0		
Sub Total : US\$ 200,000,000			Sub Total : US\$ 20,000,000		
TOTAL : US\$ 220,000,000					

BB-1519-R0-11-08-0

1. Project Title	: Engineering Service for Coastal and River Development Project
2. Program Title	: Mitigation of Water Hazards 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	: Nationwide

7. Scope of Work

- Conducting analysis in terms of operation, maintenance, facility construction and procurement plans;
- Conducting analysis in terms of detailed design, land acquisition, resettlement plans and environmental impact assessments;
- Implementing the program planning, project funding analysis and tender document preparation.

8. Outputs

- Detailed design with all supported documents including resettlement plans and environmental impact assessment;
- Implementation plan and standard procurement plan;
- Project management and funding analysis.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> 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
Sub Total : US\$ 50,000,000				Sub Total : US\$ 0			
TOTAL : US\$ 50,000,000							

Management of Water Resources Infrastructure Program

BB-1519-R0-12

1. Program Title	: Management of Water Resources Infrastructure Program
2. Executing Agency	: Ministry of Public Works and Housing

3. Background and Justification

One of the main targets in order to realize an increase in water security in the Medium-Term National Development Plan 2015-2019, is to improve institutional capacity, management, and integration in water resources management to become more integrated, effective, efficient and sustainable, including increased availability and ease of access to data and information.

Reservoir storage capacity in Indonesia has been greatly reduced due to sedimentation. This has an impact on the ability of the raw water reservoirs in the provision of drinking water reservoir capacity by means of dredging. If the reservoir capacity has been increased by the addition to the increase in the raw water supply for drinking and irrigation water, it can also be used for power generation. This is to support government program, namely food, water, and energy security.

In order to manage water resources infrastructure, it is necessary to have engineering expert advice services so that every program run more structured, focused and targeted. It can also be the basis for policy makers' infrastructure management of water resources in implementing any measures taken.

4. Scope of Work

- 1) Improving operation and safety of dams;
- 2) Increasing capacity of O&M and human resources;
- 3) Mitigation sedimentation reservoir;
- 4) Increasing security institutions dams;
- 5) Project management;
- 6) Improving reservoir capacity;
- 7) Utilizing potential dams for power generation;
- 8) Engineering services.

5. Outcomes

- 1) Increased operating performance and security of 63 dams;
- 2) Increased supply of water to the raw water of drinking water as water resistance support;
- 3) Improved water supply for irrigation in support of food security;
- 4) Increased supply of electric energy to support energy security;
- 5) Established program management of water resources infrastructure is structured, focused, and on target.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.

BB-1519-R0-12**7. Indications of Financing Need**

Loan	:	USD	650,000,000
Grant	:	USD	0
Counterpart Funding	:	USD	130,000,000
Total Financing	:	USD	780,000,000

BB-1519-R0-12-01-0

1. Project Title	: Dam Operational Improvement And Safety Project (DOISP) – Phase II
2. Program Title	: Management of Water Resources 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	: 60 months
6. Location	: Lampung, West Java, Central Java, DI Yogyakarta, East Java, West Nusa Tenggara, East Nusa Tenggara, East Kalimantan, and South Sulawesi Province

7. Scope of Works

- a. Dam Operational Safety Improvement;
- b. O&M Improvement and Capacity Building;
- c. Reservoir Sedimentation Mitigation;
- d. Dam Safety Assurance Institutional Improvement;
- e. Project Management.

8. Outputs

- a. Reduced dam safety risks;
- b. Improved operational performance of total 63 dams/reservoirs;
- c. Strengthened regulatory, administrative and financial capacity to manage dam infrastructure.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 250,000,000	- Central Government	: US\$ 50,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 250,000,000	Sub Total	: US\$ 50,000,000
TOTAL : US\$ 300,000,000			

BB-1519-R0-12-02-0

-
1. **Project Title** : Enhanced Water Security Investment Program
 2. **Program Title** : Management of Water Resources 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** : 60 months
 6. **Location** : Aceh, Lampung, West Java, Central Java, DI Yogyakarta, East Java, West Nusa Tenggara, East Nusa Tenggara, East Kalimantan, and South Sulawesi Province
-

7. Scope of Work

- a. Reservoir capacity improvement;
- b. Dam utilization for hydropower generation;
- c. Project Management.

8. Outputs

- a. Improved reservoir capacity;
- b. Improved dam utilization for hydropower generation.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 350,000,000 - Grant : US\$ 0 				<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 70,000,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 			
<hr/> Sub Total : US\$ 350,000,000				<hr/> Sub Total : US\$ 70,000,000			
TOTAL : US\$ 420,000,000							

BB-1519-R0-12-03-0

1. Project Title	: Engineering Services for Water Resources Infrastructure Management
2. Program Title	: Management of Water Resources Infrastructure
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	: Jakarta

7. Scope of Work

- Conducting analysis in terms of operation, maintenance and procurement plans;
- Conducting analysis in terms of detailed design, and environmental impact assessments;
- Implementing the program planning, project funding analysis and tender document preparation.

8. Outputs

- Detailed design with all supported documents;
- Implementation plan and standard procurement plan;
- Project management and funding analysis.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding				<ul style="list-style-type: none">Counterpart Funding			
-	Loan	: US\$	50,000,000	-	Central Government	: US\$	10,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total		: US\$	50,000,000	Sub Total		: US\$	10,000,000
TOTAL : US\$ 60,000,000							

Program for Provision of Housing for Low Income Households

BB-1519-R0-13

1. Program Title	: Program for Provision of Housing for Low-Income Households
2. Executing Agency	: 1. Ministry of Public Works and Housing 2. National Housing Corporation

3. Background and Justification

National Constitution 1945 article 28H mentions that every person has the right to live prosperously in physical, spiritual and also having a good shelter with decent environment. Based on the Long-Term National Development Plan 2005-2025, achieving the minimum basic services is mandatory in the third phase of the medium term plan. Therefore, in the Medium-Term National Development Plan 2015-2019, the government has committed to provide adequate and affordable housing for low income households (MBR) and reduce the number of housing backlog based on tenancy perspective to 5 million households by 2019. In 2014, housing backlog based on tenancy perspective was 7.6 million households. The provision of adequate and affordable housing already considers a growing number of the new households within the next 5 years.

Despite government's had implemented enormous effort in the last 10 years for housing programs, some problems still remains. The main problem is the mismatch between supply and demand of housing, including lack of the private sector's role in providing housing for low income households, lack of low income households' capability to build or buy a house, as well as the land acquisition problems in urban areas. Therefore, stronger collaboration of all stakeholders is necessary, mainly focusing on providing new housing (rental or owned) and improving quality of existing housing as well as the settlement infrastructure, optimization of housing finance markets, and strengthening of the enabling environment (regulations, finance, institutional, and human resources).

4. Scope of Work

- 1) Institutional capacity building for housing financial institutions and housing developer;
- 2) Development of housing financial system, including housing micro finance system;
- 3) Provide housing financial facility for low income households;
- 4) Preparation of detailed engineering design and feasibility study;
- 5) Preparation of land and certification of building permits;
- 6) Development of housing as well as the settlements for low income households, including landed houses, multi-storey housing, and quality improvement of existing multi-storey housing.

5. Outcomes

- 1) Increase access for low income households to housing market to occupy adequate and affordable houses as contribution to reduce housing backlog;
- 2) Increase quality of planning for housing provision and housing finance as a contribution realization for appropriate and performance-based housing policy;
- 3) Improve institutional capacity of housing development stakeholders.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.

BB-1519-R0-13**7. Indications of Financing Need**

Loans	:	USD	500,000,000
Grant	:	USD	7,000,000
Counterpart Funding	:	USD	35,000,000
Total Financing	:	USD	542,000,000

BB-1519-R0-13-01-0

1. Project Title	: Financial Support for Low Income Households
2. Program Title	: Program for Provision of Housing For Low Income Households
3. Executing Agency	: Ministry of Public Works and Housing
4. Implementing Agency	: a. Directorate General of Housing Finance, Ministry of Public Works and Housing b. Ministry of Finance c. Indonesia Financial Services Authority
5. Duration	: 48 months
6. Location	: Nationwide

7. Scope of Work

- a. Capacity Building for Housing Finance Institutions, including for
 - Optimizing the secondary mortgage finance for low income households;
 - Optimizing the Regional Development Bank in providing finance for low income households.
- b. Development of Housing-Micro Finance Systems
 - Assessment of Financial regulation;
 - Assessment of Housing subsidy scheme;
 - Assessment of Land and Property Law.
- c. Development of Housing Finance Systems
 - Development of Human Resources in the housing finance system;
 - Knowledge Management in Housing Finance;
 - Development of Housing Finance Network in Indonesia (HOFI);
 - Support Implementation.

8. Outputs

- a. Capacity Building Report on Financing Institutions in selected cities;
- b. Standard Operational Procedure (SOP) in Mortgage Financing Institutions (mortgage center);
- c. Study Assessment of Housing Micro Finance Initiatives;
- d. Market profile for Housing Finance in selected cities;
- e. Training Implementation Report for Financial Institutions and MFIs in selected cities;
- f. A Concept Note of Housing Micro Finance Product;
- g. Report of the housing market study in Indonesia.

BB-1519-R0-13-01-0**9. Project Cost**

• Foreign Funding				• Counterpart Funding			
-	Loan	: US\$	300,000,000	-	Central Government	: US\$	15,000,000
-	Grant	: US\$	7,000,000	-	Regional Government	: US\$	0
				-	State-Owned Enterprise	: US\$	0
				-	Others	: US\$	0
Sub Total : US\$ 307,000,000				Sub Total : US\$ 15,000,000			
TOTAL : US\$ 322,000,000							

BB-1519-R0-13-02-0

1. Project Title	: Support for National Housing and Urban Development Cooperation
2. Program Title	: Program for Provision of Housing For Low Income Households
3. Executing Agency	: National Housing Corporation
4. Implementing Agency	: National Housing Corporation
5. Duration	: 60 months
6. Location	: Nationwide

7. Scope of Work

- a. The preparation of detailed engineering design and feasibility study;
- b. The preparation of land and certification of building permits;
- c. The development of landed houses in 7 region;
- d. The development of multi-storey houses;
- e. Improving quality of existing multi-storey houses;
- f. The development of housing settlements infrastructure;
- g. Institutional capacity building to support National Housing Corporation (Perumnas) role as an estate management.

8. Outputs

- a. Availabilty of detailed engineering design and feasibility study;
- b. Land preparation and certification of building permits;
- c. 35,462 units landed houses;
- d. 34,346 units multi-storey houses;
- e. Quality improvement for 3,816 units multi-storey houses.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding <ul style="list-style-type: none"> - Loan : US\$ 200,000,000 - Grant : US\$ 0 		<ul style="list-style-type: none"> Counterpart Funding <ul style="list-style-type: none"> - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 20,000,000 - Others : US\$ 0 	
Sub Total	: US\$ 200,000,000	Sub Total	: US\$ 20,000,000
TOTAL : US\$ 220,000,000			

Railway Development Program

BB-1519-R0-14

1. Program Title	: Railway Development Program
2. Executing Agency	: 1. Ministry of Transportation 2. Local Government of DKI Jakarta

3. Background and Justification

Indonesia has railway networks of approximately 8,159 km of route length separated in Java, North Sumatera, West Sumatera, and South Sumatera. Some routes of the railway networks use single track type, while most of Java Main Lines has already used double track type. Axle load typically varies from 9 tons to 18 tons and track condition has been deficient due to insufficient daily maintenance. Therefore, some track improvement is needed to maintain the level of railway services. Besides, new networks are planned to be built in Kalimantan and Sulawesi in order to improve connectivity in terms of movement of people and freight.

On the other hand, there are some considerations to build the mass transportation system in the big cities and metropolitan areas. For example, in the DKI Jakarta, the number of vehicles has increased up to 3.6 times from 2000 to 2010, while the highway has increased only 2%. The economic loss due to traffic jams has reached 68 trillion rupiah per year (2012), and it is still increasing because of the oil price and even worse traffic jams. Moreover, increasing demand of public transportation to facilitate the mobilization of people and goods has encouraged the government to build mass rapid transportation (MRT) systems including development of railway networks, both elevated and subway lines.

4. Scope of Work

- 1) Procurement of track materials;
- 2) Procurement of turnouts and rolling stocks;
- 3) Design and engineering services of Jakarta MRT system;
- 4) Civil works and consulting services for MRT line construction.

5. Outcomes

- 1) Increased rail line service operation for passenger and goods transport;
- 2) Increased capacity of transport in the metropolitan area;
- 3) Reduced general problems in the streets, such as reduced risk of accidents and reduced levels of congestion.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	6,815,336,700
Grant	:	USD	0
Counterpart Funding	:	USD	797,453,200
Total Financing	:	USD	7,612,789,900

BB-1519-R0-14-01-0

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|-------------------------------|---|
| 1. Project Title | : Procurement of Track Material and Turn Out - Phase II |
| 2. Program Title | : Railway Development Program |
| 3. Executing Agency | : Ministry of Transportation |
| 4. Implementing Agency | : Directorate General of Railways, Ministry of Transportation |
| 5. Duration | : 36 months |
| 6. Location | : DKI Jakarta |
-

7. Scope of Work

- a. Procurement of 1,500 Km track materials of type UIC-54;
- b. Procurement of 300 units of turnouts.

8. Outputs

- a. Availability of track materials of type UIC-54;
- b. Availability of turnouts.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	200,000,000	-	Central Government	: US\$	46,369,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 200,000,000				<hr/> Sub Total : US\$ 46,369,000			
TOTAL : US\$ 246,369,000							

BB-1519-R0-14-02-0

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|-------------------------------|---|
| 1. Project Title | : Procurement of Track Material and Turn Out - Phase III |
| 2. Program Title | : Railway Development Program |
| 3. Executing Agency | : Ministry of Transportation |
| 4. Implementing Agency | : Directorate General of Railways, Ministry of Transportation |
| 5. Duration | : 36 months |
| 6. Location | : DKI Jakarta |

7. Scope of Work

- a. Procurement of 3,000 Km track materials of R 60;
- b. Procurement of 350 units of turnouts.

8. Outputs

- a. Availability of track materials of type R 60;
- b. Availability of turnouts.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 292,336,700	- Central Government	: US\$ 73,084,200
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 292,336,700	Sub Total	: US\$ 73,084,200
TOTAL : US\$ 365,420,900			

BB-1519-R0-14-03-0

1. **Project Title** : Construction of Jakarta Mass Rapid Transit Project Phase II
2. **Program Title** : Railway Development Program
3. **Executing Agency** : Ministry of Transportation
4. **Implementing Agency** : Local Government of DKI Jakarta
5. **Duration** : 78 months
6. **Location** : DKI Jakarta

7. Scope of Work

- a. Construction of Mass Rapid Transit (MRT) Line from Bundaran Hotel Indonesia to Kampung Bandan;
- b. Consultancy services;
- c. Procurement of rolling stocks.

8. Outputs

- a. Availability of MRT line from Bundaran Hotel Indonesia to Kampung Bandan;
- b. Availability of rolling stocks.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 1,678,000,000Grant : US\$ 0 <hr/> <div>Sub Total : US\$ 1,678,000,000</div>	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 167,800,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0 <hr/> <div>Sub Total : US\$ 167,800,000</div>
<div>TOTAL : US\$ 1,845,800,000</div>	

BB-1519-R0-14-04-0

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|-------------------------------|---|
| 1. Project Title | : Construction of Jakarta Mass Rapid Transit East-West Line Project Phase I |
| 2. Program Title | : Railway Development Program |
| 3. Executing Agency | : Ministry of Transportation |
| 4. Implementing Agency | : a. Ministry of Transportation
b. Local Government of DKI Jakarta |
| 5. Duration | : 60 months |
| 6. Location | : DKI Jakarta |
-

7. Scope of Work

- a. Construction of MRT line from East Jakarta to West Jakarta;
- b. Consultancy services;
- c. Procurement of rolling stocks.

8. Outputs

- a. Availability of MRT line from East Jakarta to West Jakarta;
- b. Availability of rolling stocks.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 3,572,000,000Grant : US\$ 0	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 357,200,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0
<hr/> <div>Sub Total : US\$ 3,572,000,000</div>	<hr/> <div>Sub Total : US\$ 357,200,000</div>
<div>TOTAL : US\$ 3,929,200,000</div>	

BB-1519-R0-14-05-0

1. Project Title	: Construction of Jakarta Mass Rapid Transit Project
2. Program Title	: Railway Development Program
3. Executing Agency	: Local Government of DKI Jakarta
4. Implementing Agency	: Local Government of DKI Jakarta
5. Duration	: 60 months
6. Location	: DKI Jakarta

7. Scope of Work

- a. Civil and track works (elevated, depot and underground);
- b. Mechanical and electrical works;
- c. Provision of rolling stocks;
- d. Consultant services for management and operation, supervision, and procurement assistances

8. Outputs

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

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 1,050,000,000	- Central Government	: US\$ 0
- Grant	: US\$ 0	- Regional Government	: US\$ 150,000,000
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 1,050,000,000	Sub Total	: US\$ 150,000,000
TOTAL : US\$ 1,200,000,000			

BB-1519-R0-14-06-0

1. Project Title	: Engineering Services Jakarta Mass Rapid Transit (MRT) East-West Line Project Phase 1
2. Program Title	: Railway Development Program
3. Executing Agency	: Ministry of Transportation
4. Implementing Agency	: Directorate General of Railways, Ministry of Transportation
5. Duration	: 28 months
6. Location	: DKI Jakarta

7. Scope of Work

- a. Route and network planning of Jakarta MRT East-West System for Kembangan-Ujung Menteng Section considering the further network integration with the existing and the future public transportation networks;
- b. Demand forecast review and analysis, considering the operating Trans-Jakarta Busway System, Monorail system and future public transport and feeder system concept along the planned MRT System corridor;
- c. Transport capacity and operation planning, including executing staging analysis and program;
- d. Detailed route surveys including geological survey, topographic survey, utility survey and others, and land preparation planning and implementing procedures;
- e. Design and engineering analysis for infrastructure construction, system facilities installation and rolling stocks procurement, including the operation and maintenance management system plans;
- f. Environmental impact assessment, including natural and social aspects, land requirements and human and area resettlement along the planned corridor and right of way and so on;
- g. Implementation planning, including analysis on the demarcation of roles by Central Government and DKI Jakarta Regional Government, MRT System operation and maintenance organizational structures and their establishment and private sectors participation;
- h. Investment planning and analysis, including funds requirement and schedule, source of finances, and their application and private investors participation;
- i. Economic and financial impact analysis and evaluation, including MRT System tariff method and financial operating planning;
- j. Prequalification and tender documents preparation based on Design Build Contract, including contract lots analysis and project execution plan.

8. Outputs

Availability of engineering design and tender documents for the mass rapid transit east-west line phase.

BB-1519-R0-14-06-0**9. Project Cost**

• Foreign Funding				• Counterpart Funding			
-	Loan	: US\$	23,000,000	-	Central Government	: US\$	3,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
				-	State-Owned Enterprise	: US\$	0
				-	Others	: US\$	0
Sub Total : US\$ 23,000,000				Sub Total : US\$ 3,000,000			
TOTAL : US\$ 26,000,000							

**Information Communication And
Technology (ICT) And
Broadcasting Infrastructure
Development Program**

BB-1519-R0-15

1. Program Title	: Information Communication and Technology (ICT) and Broadcasting Infrastructure Development Program
2. Executing Agency	: 1. Ministry of Communication and Information Technology 2. Indonesian National Police

3. Background and Justification

Bureaucracy reform has an important role in the development of the state apparatus. It is not only in the form of improvement of the government organization, but also includes the entire system of government administration at micro, meso and macro level. The Information and Communication Technology (ICT) can be used to support government administration systems. In addition, the ICT can also be applied in national security matters. The increase of cybercrime requires cyber security system as part of the national security system.

The support of ICT has not optimally implemented to enhance national competitiveness. This is caused by limited ICT infrastructures including competitive broadband access due to the high price of broadband connections and the lack of ability of the domestic ICT industry to supply the market.

The less optimal use of ICT can also be seen from the information and communication systems of government agencies that have not yet been integrated. This creates several problems such as unequal information across nations, low national competitiveness, the absence of a national reference and single data which can be shared between government agencies, and difficulty in maintaining the national data as a strategic asset. Therefore, it needs to develop ICT and broadcasting infrastructures and its supporting facilities to address those issues.

4. Scope of Work

- 1) Procurement of ICT infrastructures and its supporting facilities;
- 2) Construction of buildings for Data Center (DC), National Disaster Recovery Center (DRC), National Network Operation Center (NNOC), and the development of systems for Government-Certification of Authority (Govt-CA);
- 3) Development of broadband telecommunications network;
- 4) Development of the National Crime Information Center.

5. Outcomes

- 1) Increased capacity and quality of ICT to support communication and information systems;
- 2) Improved national systems for DC, DRC, NNOC, and Govt-CA;
- 3) Established high-speed internet access (broadband);
- 4) Support implementation of e-government;
- 5) Improved national security system to maintain national data as a strategic asset.

6. National Development Main Target in RPJMN 2015-2019: Regional and Interregional Development.

BB-1519-R0-15**7. Indications of Financing Need**

Loans	:	USD	1,076,000,000
Grants	:	USD	10,000,000
Counterpart Funding	:	USD	89,500,000
Total Financing	:	USD	1,175,500,000

BB-1519-R0-15-01-0

1. Project Title	: Improvement of TV Transmitting Stations Phase III (Digitalization of TVRI)
2. Program Title	: Information Communication and Technology (ICT) and Broadcasting Infrastructure Development Program
3. Executing Agency	: Ministry of Communication and Information Technology
4. Implementing Agency	: a. Ministry of Communication and Information Technology b. Television Republic of Indonesia
5. Duration	: 36 months
6. Location	: Nationwide

7. Scope of Work

- a. Procurement of equipment and machinery;
- b. Rehabilitation of production facilities and transmitters from analog to digital system for national television network (TVRI).

8. Outputs

- a. Digitalization studio equipment in 29 regional stations;
- b. Digitalization transmission equipment in 250 locations.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 411,000,000	- Central Government	: US\$ 41,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 411,000,000	Sub Total	: US\$ 41,000,000
TOTAL : US\$ 452,000,000			

BB-1519-R0-15-02-0

1. Project Title	: Strengthening of e-Government Infrastructure
2. Program Title	: Information Communication and Technology (ICT) and Broadcasting Infrastructure Development Program
3. Executing Agency	: Ministry of Communication and Information Technology
4. Implementing Agency	: a. Ministry of Communication and Information Technology b. Agency for the Assessment and Application of Technology c. National Crypto Agency
5. Duration	: 60 months
6. Location	: 1. West Java Province 2. East Kalimantan Province

7. Scope of Work

The proposal project consists of four main components and one administration component:

- a. National Data Center development, including:
 - Construction of Data Center building;
 - Provision of Data Center equipment (server, network tools, electricity tools, monitoring tools, etc.);
 - Provision of Data Center bandwidth;
 - International certification for Data Center (security certification, appliance certification quality assurance certification, etc.);
 - Capacity building for Data Center personnel.
- b. National Data Recovery Center development, including:
 - Construction of Data Recovery Center building;
 - Provision of Data Center equipment (server, network tools, electricity tools, monitoring tools, etc.);
 - Provision of Data Center Bandwidth;
 - International certification for Data Center (security certification, appliance certification, quality assurance certification, etc.);
 - Capacity building for Data Recovery Center personnel.
- c. Development of National Network Operation Center (NNOC) development, including :
 - Construction of NNOC building;
 - Development and provision of NNOC's control system and networking tools;
 - Provision, installation, operationalization, and maintenance of bandwidth and Government Secure Network (GSN) service system;
 - Capacity building for NNOC's personnel.
- d. Development of Government Certification of Authority (Govt-CA), including:
 - Govt-CA infrastructure and governance development;
 - International certification for Indonesia Govt-CA;
 - Capacity building for Govt-CA personnel;
- e. Project management, coordination and learning

BB-1519-R0-15-02-0**8. Outputs**

- a. Availability of National Government Data Center;
- b. Availability of Government Disaster Recovery Center;
- c. Availability of National Network Operation Center (NNOC) and implementation of Government Secure Network (GSN) for central and local government;
- d. Establishment of Indonesia Govt-CA.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding <ul style="list-style-type: none"> Loan : US\$ 145,000,000 Grant : US\$ 10,000,000 		<ul style="list-style-type: none"> Counterpart Funding <ul style="list-style-type: none"> Central Government : US\$ 20,000,000 Regional Government : US\$ 0 State-Owned Enterprise : US\$ 0 Others : US\$ 0 	
Sub Total	: US\$ 155,000,000	Sub Total	: US\$ 20,000,000
TOTAL : US\$ 175,000,000			

BB-1519-R0-15-03-0

1. **Project Title** : National Fiber Optic Backbone (Palapa Ring)
2. **Program Title** : Information Communication and Technology (ICT) and Broadcasting Infrastructure Development Program
3. **Executing Agency** : Ministry of Communication and Information Technology
4. **Implementing Agency** : Ministry of Communication and Information Technology
5. **Duration** : 24 months
6. **Location** : Nationwide

7. Scope of Work

- a. Preparation works, including procurement of construction and management;
- b. Network construction;
- c. Supervision and management.

8. Outputs

- a. The establishment of the submarines backbone telecommunication cable system of Palapa Ring with estimated total length of 15,000 km;
- b. The establishment of broadband backbone connectivity in the 51 districts / municipals.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 500,000,000Grant : US\$ 0	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 25,000,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0
<hr/> <div>Sub Total : US\$ 500,000,000</div>	<hr/> <div>Sub Total : US\$ 25,000,000</div>
<div>TOTAL : US\$ 525,000,000</div>	

BB-1519-R0-15-04-0

1. Project Title	: National Criminal Information Center for Indonesian National Police - Phase II
2. Program Title	: Information Communication and Technology (ICT) and Broadcasting Infrastructure Development Program
3. Executing Agency	: Indonesian National Police
4. Implementing Agency	: Indonesian National Police
5. Duration	: 60 months
6. Location	: DKI Jakarta

7. Scope of Work

- Development and improvement of National Criminal Information Center (NCIC);
- Development of national crime information system that accessible to crime justice system and the public.

8. Outputs

- Availability of web-based application that capable to gather criminal data from all police stations throughout Indonesia;
- Availability of interface component for data exchange and data integration in the internal and from external sources;
- Availability of access system range of at regency/city level;
- Availability of regional data center for the specified area;
- Availability of supporting hardware and software that will be needed by the system;
- Availability of data warehouse;
- Availability of intranet portal application and website that was more integrated and accurate towards the implementation of e-police;
- Availability of infrastructure supporting operational system;
- Availability of capable human resource to run the system.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	20,000,000	-	Central Government	: US\$	3,500,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total		: US\$	20,000,000	Sub Total		: US\$	3,500,000
TOTAL : US\$ 23,500,000							

Electricity Infrastructure Development Program

BB-1519-R0-16

1. Program Title	: Electricity Infrastructure Development Program
2. Executing Agency	: State Electricity Company (PT. PLN)

3. Background and Justification

The increasing demand for electricity throughout the country has made the State Electricity Company need additional generating capacity, transmission, and power distribution to ensure the continuity and reliability of electricity supply. The current capacity that largely supplied by coal and oil power plants led to high production costs. Therefore, it also need to increase the usage from other resources to reduce production costs and ongoing processes. There are several non-fuel power plants resources that can be used such as geothermal, hydropower, and other renewable energy sources.

4. Scope of Work

- 1) Preparing detailed design, tender preparation and construction supervision;
- 2) Constructing access roads and civil work;
- 3) Constructing power plants;
- 4) Developing the transmission network;
- 5) Constructing of submarine cables;
- 6) Constructing of the inverter and converter station.

5. Outcomes

- 1) Fullfilled demand for electricity;
- 2) Increased power supply networks;
- 3) Improved power supply systems;
- 4) Enhancement of clean energy sources such as geothermal and renewable energy sources.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	4,906,600,000
Grant	:	USD	0
Counterpart Funding	:	USD	931,600,000
Total Financing	:	USD	5,838,200,000

BB-1519-R0-16-01-0

1. Project Title	: Java–Sumatera Interconnection Transmission Line (HVDC) 500 kV (Phase II)
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	: 70 months
6. Location	: Sumatera and Java Province

7. Scope of Work

- a. Preparation: basic design, tender document, and engineering design;
- b. Procurement of equipment;
- c. Construction and installation of:
 - 500 kV AC Overhead line;
 - 500 IW DC Overhead line;
 - HVDC submarine cable;
 - HVDC converter station;
 - 275 kV Overhead line (OHL).
- d. Supervision;
- e. Testing and commissioning.

8. Outputs

- a. Transferring power from mine mouth power plant in South Sumatera Province to load center in Java;
- b. Improving reliability of Java-Bali and Sumatera system.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 629,000,000 - Grant : US\$ 0 				<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 0 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 88,000,000 - Others : US\$ 0 			
<hr/> Sub Total : US\$ 629,000,000				<hr/> Sub Total : US\$ 88,000,000			
TOTAL : US\$ 717,000,000							

BB-1519-R0-16-02-0

1. Project Title	: Construction of Java Sumatera Interconnection 500 kV (HVDC-Phase 3 & 4)
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	: 42 months
6. Location	: Sumatera and Java Island

7. Scope of Work

- a. Preparation: basic design, tender document, and engineering design;
- b. Procurement of equipment;
- c. Construction and installation of:
 - 500 kV AC Overhead line;
 - 500 IW DC Overhead line;
 - HVDC submarine cable;
 - HVDC converter station;
 - 275 kV Overhead line (OHL).
- d. Supervision;
- e. Testing and commissioning.

8. Outputs

- a. Increasing supply of electricity in Java-Sumatera;
- b. Transferring power from mine mouth power plant in South Sumatera to load center in Java;
- c. Improving reliability of Java-Bali and Sumatera system.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 933,000,000Grant : US\$ 0	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 0Regional Government : US\$ 0State-Owned Enterprise : US\$ 165,000,000Others : US\$ 0
<hr/> <div>Sub Total : US\$ 933,000,000</div>	<hr/> <div>Sub Total : US\$ 165,000,000</div>
<div>TOTAL : US\$ 1,098,000,000</div>	

BB-1519-R0-16-03-0

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|-------------------------------|---|
| 1. Project Title | : Engineering Service for Hululais 1&2 Geothermal Power Plant Project (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 | : 42 months |
| 6. Location | : South Sumatera Province |
-

7. Scope of Works

Conduct engineering services to facilitate:

- Detail design and preparation of tender document;
- Construction supervision.

8. Outputs

Availability of detailed design of Hululais 1 and 2 Geothermal Power Plant Project (2x55 MW).

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	6,600,000	-	Central Government	: US\$	0
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	600,000
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 6,600,000				<hr/> Sub Total : US\$ 600,000			
TOTAL : US\$ 7,200,000							

BB-1519-R0-16-04-0

- | | |
|-------------------------------|--|
| 1. Project Title | : Hululais Geothermal Power Plant |
| 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 | : 62 months |
| 6. Location | : Bengkulu Province |

7. Scope of Work

- Construction of power plant 2x55 MW;
- Construction of transmission line 150 kV.

8. Outputs

- Availability of Hululais Geothermal Power Plant (2x55 MW);
- Availability of transmission line 150 kV.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding			<ul style="list-style-type: none">Counterpart Funding		
-	Loan	: US\$ 204,000,000	-	Central Government	: US\$ 0
-	Grant	: US\$ 0	-	Regional Government	: US\$ 0
-			-	State-Owned Enterprise	: US\$ 42,000,000
-			-	Others	: US\$ 0
<hr/>			<hr/>		
	Sub Total	: US\$ 204,000,000		Sub Total	: US\$ 42,000,000
TOTAL : US\$ 246,000,000					

BB-1519-R0-16-05-0

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|-------------------------------|--|
| 1. Project Title | : Bakaru Hydro Electrical Power Plant (2x63 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 | : 48 months |
| 6. Location | : South Sulawesi Province |
-

7. Scope of Work

- a. Stage 1
 - Sedimentation countermeasure
 - Rehabilitation of dam and turbin Bakaru I Hydro Electrical Power Plant (HEPP);
 - Engineering services for Bakaru II HEPP
- b. Stage 2
 - Construction of Bakaru II HEPP
 - Construction supervision

8. Outputs

- a. Availability of hydropower plant providing 126 MW;
- b. Optimize the usage of Bakaru hydropower.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	280,000,000	-	Central Government	: US\$	0
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	20,000,000
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 280,000,000				<hr/> Sub Total : US\$ 20,000,000			
TOTAL : US\$ 300,000,000							

BB-1519-R0-16-06-0

1. **Project Title** : Tulehu Geothermal Power Plant Project Unit 1&2 (2x10 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** : 42 months
6. **Location** : Ambon City

7. Scope of Work

- a. Additional boring for 3 production/injection well;
- b. Construction of power plant.

8. Outputs

- a. Increasing portion of renewable energy in the national energy mix;
- b. Anticipation of delayed operation of Independent Power Producer (IPP) in the area;
- c. Reducing production cost.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding 		<ul style="list-style-type: none"> • Counterpart Funding 	
- Loan	: US\$ 104,000,000	- Central Government	: US\$ 0
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 18,000,000
		- Others	: US\$ 0
Sub Total	: US\$ 104,000,000	Sub Total	: US\$ 18,000,000
TOTAL : US\$ 122,000,000			

BB-1519-R0-16-07-0

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|-------------------------------|--|
| 1. Project Title | : Indramayu Coal Fired Power Plant #4 (1x1000MW) |
| 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 | : 42 months |
| 6. Location | : West Java Province |

7. Scope of Work

Construction works for 1,000 MW ultra super critical/ super critical coal-fired power plant in Indramayu, including:

- Boiler;
- Steam turbine and generator;
- Coal and ash handling equipment;
- Marine works;
- Transmission line and substation;
- Site preparation works;
- Site finishing works;
- Civil works.

8. Outputs

- a. Availability of Indramayu Coal Fired Power Plant (1x1000 MW);
- b. Increasing supply of electricity in Java-Bali system.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding	<ul style="list-style-type: none">Counterpart Funding
<ul style="list-style-type: none"><ul style="list-style-type: none">Loan : US\$ 1,845,000,000	<ul style="list-style-type: none"><ul style="list-style-type: none">Central Government : US\$ 0
<ul style="list-style-type: none"><ul style="list-style-type: none">Grant : US\$ 0	<ul style="list-style-type: none"><ul style="list-style-type: none">Regional Government : US\$ 0
	<ul style="list-style-type: none"><ul style="list-style-type: none">State-Owned Enterprise : US\$ 333,000,000
	<ul style="list-style-type: none"><ul style="list-style-type: none">Others : US\$ 0
<hr/> <div>Sub Total : US\$ 1,845,000,000</div>	<hr/> <div>Sub Total : US\$ 333,000,000</div>
<div>TOTAL : US\$ 2,178,000,000</div>	

BB-1519-R0-16-08-0

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|-------------------------------|---|
| 1. Project Title | : Additional Loan for Upper Cisokan Pumped Storage Hydro Electrical Power Plant (4x260MW) |
| 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 | : 60 months |
| 6. Location | : West Java Provinces |

7. Scope of Work

To meet the shortage of funding for Upper Cisokan Pumped Storage HEPP 4 x 260 MW in particular on construction of:

- IFB-1 Lot-1 upper and lower dam;
- IFB-1 Lot-2 water ways and power house;
- IFB-2 hydraulic pump turbine, generator-motor, electrical equipment, hydraulic metal works, building works;
- IFB-3 500 kV transmission lines;

8. Outputs

- a. Fulfillment of the electricity demand in Java-Bali system with the additional capacity of 1,000 MW;
- b. Improving capacity factor base load power plant/ steam-coal power plant.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding <ul style="list-style-type: none"> Loan : US\$ 200,000,000 Grant : US\$ 0 		<ul style="list-style-type: none"> Counterpart Funding <ul style="list-style-type: none"> Central Government : US\$ 0 Regional Government : US\$ 0 State-Owned Enterprise : US\$ 0 Others : US\$ 0 	
Sub Total	: US\$ 200,000,000	Sub Total	: US\$ 0
TOTAL : US\$ 200,000,000			

BB-1519-R0-16-09-0

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|-------------------------------|--|
| 1. Project Title | : Sungai Penuh Geothermal Power Plant 1&2 (2x55MW) |
| 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 | : 42 months |
| 6. Location | : Jambi Province |

7. Scope of Work

- a. Engineering services for generating facilities, including detailed design and preparation of tender document as well as construction supervision;
- b. Construction of generating facilities, including procurement.

8. Outputs

- a. Availability of Sungai Penuh Geothermal Power Plant 1&2 (2x55MW)
- b. To fulfill electric power demand in Southern Sumatera system;
- c. To utilize geothermal energy resources in Jambi area.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 			<ul style="list-style-type: none"> Counterpart Funding 		
-	Loan	: US\$ 205,000,000	-	Central Government	: US\$ 0
-	Grant	: US\$ 0	-	Regional Government	: US\$ 0
-			-	State-Owned Enterprise	: US\$ 45,000,000
-			-	Others	: US\$ 0
Sub Total : US\$ 205,000,000			Sub Total : US\$ 45,000,000		
TOTAL : US\$ 250,000,000					

BB-1519-R0-16-10-0

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|-------------------------------|---|
| 1. Project Title | : Matenggeng Pumped Storage Hydro Electrical Power Plant (4x225 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 | : 60 months |
| 6. Location | : Central Java Provinces |
-

7. Scope of Work

- a. Preparation of detailed design, and bidding document;
- b. Develop Matenggeng Pumped Storage Hydro Electrical Power Plant with capacity 4x225 MW and associated transmission lines;
- c. Supervision.

8. Outputs

Fulfillment of the hydropower generation with installed capacity 4x225 MW.

8. Project Cost

<ul style="list-style-type: none">Foreign Funding			<ul style="list-style-type: none">Counterpart Funding		
-	Loan	: US\$ 500,000,000	-	Central Government	: US\$ 0
-	Grant	: US\$ 0	-	Regional Government	: US\$ 0
			-	State-Owned Enterprise	: US\$ 220,000,000
			-	Others	: US\$ 0
<hr/>			<hr/>		
	Sub Total	: US\$ 500,000,000		Sub Total	: US\$ 220,000,000
TOTAL : US\$ 720,000,000					

**Improving Access, Quality,
Relevance, and Competitiveness
of Higher Education Program**

BB-1519-R0-17

1. Program Title	: Improving Access, Quality, Relevance, and Competitiveness of Higher Education Program
2. Executing Agency	: Ministry of Research, Technology and Higher Education

3. Background and Justification

Higher education plays an important role in enhancing national competitiveness through the development of science, scientific research, and technological innovation. In addition, higher education is closely related to the nation's economy through its quality human resources. Despite of the importance of higher education, its access is still low and not evenly distributed, especially for the poor. In 2014, higher education gross enrollment rate is 28.5 percent. Moreover, the quality of higher education is still relatively low in term of relevance and competitiveness. These are outcomes of limited facilities and infrastructure such as laboratories, research facilities, educational tools, and other supporting facilities, as well as the quality of lecturers.

Therefore, more effort is needed to improve the quality of higher education services to be accessible by the entire population of productive age, so that they can become the driving force of economic growth.

4. Scope of Work

- 1) Development of teaching and research facilities, supporting infrastructures, and procurement of equipment;
- 2) Development and improvement of the quality of human resources, including degree and non-degree programs for lecturers and university's staff;
- 3) Development of academic curriculum and management system to improve teaching-research process.

5. Outcomes

- 1) Increasing access to higher education, thus increasing enrollment rate;
- 2) Improving quality, relevance, competitiveness, and accreditation of higher education through the enhancement of academic quality, facilities, human resources development, and research;
- 3) Increasing quality and competitive higher education graduates.

6. Main Target of the National Development in RPJMN 2015-2019: Human and People Development.**7. Indications of Financing Need**

Loan	:	USD	290,311,500
Grant	:	USD	0
Counterpart Funding	:	USD	29,793,400
Total Financing	:	USD	320,104,900

BB-1519-R0-17-01-0

1. Project Title	: Strengthening Capacity of State Higher Education
2. Program Title	: Improving Access, Quality, Relevance, and Competitiveness of Higher Education Program
3. Executing Agency	: Ministry of Research, Technology and Higher Education
4. Implementing Agency	: Universities under the Ministry of Research, Technology and Higher Education
5. Duration	: 48 months
6. Location	: Banten, East Java, East Kalimantan, South Sulawesi, Bengkulu, and D.I. Yogyakarta Province

7. Scope of Work**a. The Development of Sultan Ageng Tirtayasa University (UNTIRTA):**

Development of new campus location in Serang District, Banten Province through:

- i. Construction of new academic buildings, covers:
 - o Faculty of Teacher Training and Education, Faculty of Law, Faculty of Politics and Social Sciences, Faculty of Economics, and Faculty of Agriculture;
- ii. Construction of new laboratories, covers:
 - o Integrated Laboratory; and
 - o Agriculture Laboratory and Green House.
- iii. Construction of supporting buildings, covers:
 - o Rectorate-Library-Basic Information Center;
 - o LP3M;
 - o Integrated UPT; and
 - o University Mosque.
- iv. Infrastructure and landscape development, covers:
 - o Campus road and drainage network;
 - o Bridge;
 - o Power house;
 - o Water and Waste Treatment Plant;
 - o Street lighting, hydrant outlet; and
 - o Garden and Forest area development.

b. Development for State University of Malang as The Learning University:

Increasing State University of Malang's student capacity through:

- i. Construction of Integrated Lecture Building (comprise 600 teaching rooms, lecturer's rooms, and laboratories);
- ii. Procurement of furnitures and equipment;
- iii. Provision of consultant services (detailed engineering design, management and supervision, equipment, auditing, and academic development);
- iv. Human Resources Development.

BB-1519-R0-17-01-0**c. The Development and Upgrading Mulawarman University:**

Providing adequate teaching-learning facilities, through:

- i. Construction of new academic and laboratories (includes furnitures and fixtures), covers:
 - Research and Development Laboratory, Faculty of Pharmacy;
 - Lecture and Faculty Building, Faculty of Information Technology and Computer Science;
 - Laboratory, Faculty of Information Technology and Computer Science, and Laboratory, Faculty of Public Health;
 - ICT Center;
 - Science Learning Centre, Faculty of Science; and
 - Research Laboratory.
- ii. Procurement of equipment, covers:
 - Laboratory Faculty of Public Health, Laboratory Faculty of Information Technology and Computer Science, Laboratory Faculty of Pharmacy, and Laboratory Faculty of Science;
 - ICT Center; and
 - Research Laboratory.
- iii. Construction of supporting infrastructures and landscape development;
- iv. Human resources development.

d. Improvement of The Capacity and Contribution of The University of Jember on Standardized and Excellent Tridharma Implementation in South East Asia Region:

Improvement of University of Jember teaching quality and research capacity in science and technology, particularly in Biotechnology, through:

- i. Construction of student service laboratories in Faculty of Science, Faculty of Agriculture, Faculty of Agricultural Technology, Faculty of Engineering, Faculty of Medicine, Faculty Dentistry, Faculty of Health Science, Faculty of Public Health, Faculty of Pharmacy, and Faculty of Teacher Training and Education;
- ii. Development of Agro-Technopark and Eco-Agrotourism;
- iii. Development of Incubator and Training Centre;
- iv. Procurement of equipment, covers:
 - New laboratories;
 - CDAST;
 - Agro-technopark and Eco Agro-tourism;
 - Incubator and Training Centre; and
 - Agro-medic.
- v. Human resources development;
- vi. Research grants; and
- vii. Consultant services (detailed engineering design, management and supervision, equipment, auditing, and academic development).

BB-1519-R0-17-01-0

e. The Plan of Hasanuddin University Hospital Development:

Improvement of medical education quality service in Hasanuddin University Hospital, through:

- i. Procurement of equipment, covers:
 - o Mandatory equipment for B Class Hospital accreditation;
 - o Five Centre of Excellences;
 - o Radiology and Clinical Pharmacy;
 - o Simulation Centre; and
 - o Research Laboratory.
- ii. Human resources development;
- iii. Development of telemedicine and management information system; and
- iv. Management and consulting services.

f. Establishment of University of Bengkulu's Hospital:

- i. Environmental assessments and impact analysis;
- ii. Establishment University of Bengkulu's hospital (civil works), covers:
 - o Constructions of hospital buildings and landscapes;
 - o Construction of waste management systems; and
 - o Establishment of infrastructure for IT-based hospital services and management.
- iii. Procurement of medical equipment and furniture;
- iv. Preparing human resources for hospital management; and
- v. Project management, coordination, and learning.

g. University of Gadjah Mada Achieving World Class University with Socio-Entrepreneurial Spirit:

Development of Universitas Gadjah Mada through:

- i. Construction of new buildings, covers:
 - o Smart and green learning center;
 - o Information Technology Learning center and laboratory;
 - o Engineering Research Innovation Center (ERIC);
 - o Law learning center;
 - o Pre-clinic and Biomedic Learning center and laboratory;
 - o Advance Pharmaceutical Science Learning center and laboratory;
 - o Animal Science Learning center and laboratory;
 - o Integrated Farming Learning center and laboratory;
 - o Agrotropica Learning center and laboratory; and
 - o Learning Center and Teaching Factory.
- ii. Procurement of equipment, covers:
 - o Smart and green learning center;
 - o ERIC building;
 - o Pre-clinic and Biomedic Learning center and laboratory;
 - o Advance Pharmaceutical Science Learning center and laboratory;
 - o Animal Science Learning center and laboratory; and
 - o Agrotropica Learning center and laboratory.

BB-1519-R0-17-01-0

- iii. Human resources development and curriculum design;
- iv. Consultant services (detailed engineering design, management and supervision, equipment); and
- v. Project Management.

8. Outputs

- a. Improvement of learning and research facilities for student, lecturer and researcher;
- b. Improvement of number and quality of innovation and research;
- c. Improvement of quality of human resources in academic, research, management, and administration.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding			<ul style="list-style-type: none">Counterpart Funding		
-	Loan	: US\$ 290,311,500	-	Central Government	: US\$ 29,793,400
-	Grant	: US\$ 0	-	Regional Government	: US\$ 0
			-	State-Owned Enterprise	: US\$ 0
			-	Others	: US\$ 0
<hr/>			<hr/>		
	Sub Total	: US\$ 290,311,500		Sub Total	: US\$ 29,793,400
<hr/>			<hr/>		
TOTAL : US\$ 320,104,900					

BB-1519-R0-17-01-0**10. Detail of Project Cost**

	Project	Loan (US\$)	Counterpart Funding (US\$)
1.	Development of Sultan Ageng Tirtayasa University	49,882,300	3,797,300
2.	Development of State University of Malang as The Learning University	38,400,000	9,335,300
3.	Development and Upgrading Mulawarman University	44,400,000	4,858,000
4.	Improvement of The Capacity and Contribution of The University of Jember on Standardized and Excellent Tridharma Implementation in South East Asia Region	44,091,200	1,992,700
5.	Hasanuddin University Hospital Development	31,565,800	2,586,200
6.	Establishment of University of Bengkulu's Hospital	10,278,200	182,000
7.	University of Gadjah Mada Achieving World Class University with Socio-Entrepreneurial Spirit	71,694,000	7,041,900
	TOTAL	290,311,500	29,793,400

**Improving Access, Quality,
Relevance, and Competitiveness
of Islamic Higher Education
Program**

BB-1519-R0-18

1. Program Title	: Improving Access, Quality, Relevance, and Competitiveness of Islamic Higher Education Program
2. Executing Agency	: Ministry of Religious Affair

3. Background and Justification

Higher education plays an important role in enhancing competitiveness, and building a nation of excellence, through the development of science, scientific discovery and technological innovation. In addition, higher education is closely related to the progress of the nation's economy through improving the quality of human resources. Therefore, strengthening higher education institutions is unequivocally needed in support of the nation's effort in facing a great deal of challenges in the era of globalize economy.

Islamic Higher Education (Islamic HE) is part of the Indonesia's education system. As Islamic HE institutions serve a huge number of students, in which need an improvement in terms of access, quality, relevance, and competitiveness. Although they play a significant role in the country's social-economic development, their quality is considered very low compared to general universities. Such condition results from the lack of facilities and infrastructure such as laboratories, research facilities, educational tools, and support facilities, as well as lecturers.

Therefore, more effort is needed to improve the quality of Islamic HE services to be accessible by the entire population of productive age, so that they can become the driving force of economic growth.

Law No. 12 of 2012 on Higher Education Article 30 states that Higher Education institutions may take the form of religious higher education university, college, seminary, and other similar forms. Indonesia has three types of Islamic higher education, namely the State Islamic University (UIN), State Islamic Institute (IAIN), and the College of Islamic Studies (STAIN). In its development, IAIN has been established in every province in Indonesia, which managed under the coordination of the Ministry of Religious Affairs. In 1997 as many as 36 Colleges of Islamic Studies (STAIN) changed its status to become IAINs. Moreover, the most established IAINs have also transformed into universities, thus becoming State Islamic Universities by promoting various subject fields (e.g. medicine, public health, and engineering) in addition to Islamic studies.

The change of IAIN to UIN status was motivated by the need for strengthening the institutions by integrating "Islamic sciences" and "secular sciences". The new development of the Islamic HE institution has instigated Indonesian Moslems to study at IAINs and UINs with hope that they will gain quality HE. Therefore the government concerns about involving the quality of Islamic HE similar to that of general HE by building infrastructure and academic facilities, and providing quality academic staff.

BB-1519-R0-18**4. Scope of Work**

- 1) Development of teaching and research facilities, supporting infrastructures, and procurement of equipment;
- 2) Development and improvement of the quality of human resources, including degree and non-degree programs for lecturers and university's staff; and
- 3) Development of academic curriculum and management system to improve teaching-research process.

5. Outcomes

- 1) Increasing access to Islamic higher education, thus increasing enrollment rate;
- 2) Improving quality, relevance, competitiveness, and accreditation of Islamic higher education through the enhancement of academic quality, facilities, human resources development, and research; and
- 3) Increasing quality and competitive higher education graduates.

6. Main Target of the National Development in RPJMN 2015-2019:

Human and People Development.

7. Indications of Financing Need

Loan	:	USD	238,210,000
Grant	:	USD	0
Counterpart Funding	:	USD	50,447,100
Total Financing	:	USD	288,657,100

BB-1519-R0-18-01-0

1. Project Title	: Strengthening Capacity of Islamic Higher Education (IAIN and UIN)
2. Program Title	: Improving Access, Quality, Relevance, and Competitiveness of Islamic Higher Education Program
3. Executing Agency	: Ministry of Religious Affairs
4. Implementing Agency	: Universities under the Ministry of Religious Affairs
5. Duration	: 48 months
6. Location	: West Sumatra, Jambi, Lampung, East Java, Banten, and South Kalimantan Province

7. Scope of Work**a. Improvement and Optimalization of Sunan Ampel Surabaya State Islamic University:**

- i. Construction of new buildings, covers:
 - Faculty of Science and Technology, Faculty of Social and Political Sciences, Faculty of Psychology and Health Sciences, Faculty of Adab and Humanities;
 - Teachers' College Building and Teachers' Dormitory;
 - Library;
 - Academic Administration;
 - Business Center;
 - Student Center;
 - Religious Laboratory; and
 - Landscape and Supporting Infrastructure.
- ii. Academic Improvement, covers:
 - Developing curriculum and academic management; and
 - Improving the quality and quantity of scientific publications.
- iii. Capacity Building, covers:
 - Developing professionalism and competence of academic staffs through lecturer exchange, internship, joint research, including degree and non-degree programs.

b. Improvement of Access and Quality of the State Islamic Institute of Suthan Maulana Hasanuddin Banten:

- i. Construction of new buildings, covers:
 - Faculty of Syariah, Faculty of Islamic Finance, Faculty of Tarbiyah, Faculty of Ushuluddin and Adab, and Faculty of Da'wah;
 - Rectorate Building;
 - Library;
 - Research Center and Integrated Laboratory;
 - Student Center;
 - Multipurpose/Auditorium Building;
 - Islamic Tutorial Center; and
 - Training and Conversation Center.
- ii. Procurement of furniture and equipment;
- iii. Upgrading faculty/staff-human resources;
- iv. Academic curriculum development, including initial study, workshop, and dissemination.

BB-1519-R0-18-01-0

c. Development and Quality Improvement of Antasari State Islamic Institute:

- i. Construction of new buildings, covers:
 - o Faculty of Syari'a and Islamic Economics, Faculty of Tarbiyah and Education, Faculty of Ushuluddin and Humanities, Faculty of Da'wah and Communication, and Faculty of Science and Technology;
 - o Main library;
 - o Student dormitory;
 - o Rectorate building; and
 - o Integrated laboratory.
- ii. Curriculum and management development, covers: curriculum development, workshops, and developing ICT system;
- iii. Training program, covers: overseas and local short trainings, and exchange programs.

d. Transformation of State Islamic Institute of Sulthan Thaha Saifuddin to State Islamic University:

- i. Construction of new buildings, covers:
 - o Faculty of Syari'a and Law, Faculty of Tarbiyah and Teaching, Faculty of Ushuluddin and Islamic Media, Faculty of Adab and Humaniora, Faculty of Qur'anic Science and Technology, Faculty of Business and Islamic Economy;
 - o General lecture building and rectorate building;
 - o Auditorium;
 - o Training center;
 - o Stadium; and
 - o Integrated laboratory.
- ii. Curriculum development; and
- iii. Training and workshop (degree and non-degree program).

e. Development and Institutional Transformation of State Islamic Institute Raden Intan Lampung:

- i. Construction of new buildings, covers:
 - o Faculty of Islamic Economy and Business, Faculty of Psychology, Faculty of Sciences and Technology, Faculty of Literature and Humanities, and Faculty of Communication;
 - o Academic and multipurpose building;
 - o Main building;
 - o Sport centre.
 - ii. Human resources development, covers:
 - o Degree and non-degree training and research management;
 - o Technical training programs; and
 - o Exchange of lecturers, and joint research.
 - iii. Academic development, consist of:
 - o Developing the integrated academic information system;
 - o Improving the quality and quantity of scientific publications into reputable journals; and
 - o Strengthening and developing the existing and new faculties and study programs.
-

BB-1519-R0-18-01-0**f. Development of Imam Bonjol State Islamic Institute Project:**

- i. Constructions of several buildings and infrastructure, covers:
 - o Faculty of Syari'a and Law, Faculty of Ushuluddin, Faculty of Da'wah and Communication, and Faculty of Adab and Humanities;
 - o Rectorate building; and
 - o Rooms and classes.
- ii. Human resources improvement programs, covers:
 - o Sandwich program;
 - o Technical and non-technical (domestic and overseas) trainings;
 - o Academic journal publication; and
 - o Curriculum development.
- iii. Project management.

8. Outputs

- a. Conducting education on integrative-multidisciplinary Islamic sciences with high competitiveness and relevant to the needs of industries and labor market;
- b. Improvement of learning and research facilities for student, lecturer and researcher;
- c. Improvement of number and quality of innovation and research; and
- d. Improvement of quality of human resources in academic, research, community service, management, and administration.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 238,210,000	- Central Government	: US\$ 50,447,100
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 238,210,000	Sub Total	: US\$ 50,447,100
TOTAL : US\$ 288,657,100			

BB-1519-R0-18-01-0**10. Detail of Project Cost**

Project	Loan (US\$)	Counterpart Funding (US\$)
1. Improvement and Optimalization of Sunan Ampel Surabaya State Islamic University	40,000,000	10,000,000
2. Improvement of Access and Quality of State Islamic Institute Suthan Maulana Hasanuddin Banten	40,000,000	5,985,000
3. Development and Quality Improvement of Antasari State Islamic Institute	39,908,600	10,290,700
4. Transformation of State Islamic Institute of Sulthan Thaha Saifuddin to State Islamic University	40,000,000	10,000,000
5. Development and Institutional Transformation of State Islamic Institute Raden Intan Lampung	40,000,000	10,000,000
6. Development of Imam Bonjol State Islamic Institute Project	38,301,400	4,171,400
TOTAL	238,210,000	50,447,100

Human Resources Development for Bureaucracy Reform Program

BB-1519-R0-19

1. Program Title	: Human Resources Development for Bureaucracy Reform Program
2. Executing Agency	: Ministry of National Development Planning/ National Development Planning Agency

3. Background and Justification

Since 2007 the Indonesian government has pursued efforts in order to improve the government institution performance by implementing bureaucracy reform in several government institutions such as Ministry of Finance, State Supreme Audit Agency, and Supreme Court as a pilot project. The success of this pilot project becomes a reason to expand the bureaucratic reform to all government institutions. To support this effort, the improvement and adjustment on managerial and critical mass aspects are needed. These improvements and adjustments cover many aspects such as policies, regulations, governance, assessment, coaching, and appropriate human resources, systems, and facilities.

Most of the bureaucracy reform strategies are covered in the Human Capital Development Plan (HCDP), including scholarship programs for strengthening the bureaucracy reform in central government institutions. In this regards, this program can be seen as a capacity building program through human resources improvement in order to support the bureaucracy reform implementation.

4. Scope of Work

- 1) Capacity building through training and scholarship;
- 2) Project management and operation.

5. Outcomes

Efficient and effective bureaucracy reform program through improvement of human resources in the government institutions.

6. Main Target of the National Development in RPJMN 2015-2019: Human and People Development.**7. Indications of Financing Need**

Loan	:	USD	300,000,000
Grant	:	USD	0
Counterpart Funding	:	USD	0
Total Financing	:	USD	300,000,000

BB-1519-R0-19-01-0

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- | | |
|-------------------------------|---|
| 1. Project Title | : Development of Capacity, Quality and Competency of Human Resources for Government Officer |
| 2. Program Title | : Human Resources Development for Bureaucracy Reform 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 | : 50 months |
| 6. Location | : a. DKI Jakarta;
b. Domestic (linkage) and overseas universities. |
-

7. Scope of Work

- a. Pre-departure training;
- b. Degree and non-degree scholarships for participating agencies;
- c. Program and project management and operational support.

8. Outputs

Availability of approximately 2,109 graduate students/ trainees that consist of:

- a. 137 alumni of overseas Ph.D degree;
- b. 1,078 of overseas and linkage master degree; and
- c. 1,494 of domestic and overseas non-degree programs (managerial, functional, individual, internship and certification).

9. Project Cost

• Foreign Funding				• Counterpart Funding			
-	Loan	: US\$	300,000,000	-	Central Government	: US\$	0
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/> Sub Total : US\$ 300,000,000				<hr/> Sub Total : US\$ 0			
TOTAL : US\$ 300,000,000							

Basic Health Care Program

BB-1519-R0-20

1. Program Title	: Basic Health Care Program
2. Executing Agency	: Ministry of Health

3. Background and Justification

In the Medium-Term National Development Plan 2015-2019, the Indonesian Health Program has the goal to improve the health and nutritional status of the community through health and community development. It will be achieved through health and community empowerment efforts that are supported by financial protection and equity of health services. One of the main targets of the National Medium-Term Development Plan 2015-2019 is the increased access to quality primary health care services and referrals, especially in remote areas, disadvantaged, and border regions.

The improvement of the quality of primary health care services is undoubtedly essential to support supply side readiness for the implementation of Universal Health Coverage. The Indonesian Health Facility Research (Rifaskes, 2011) shows that on average health centers only have 5 out of 7 required basic amenities (i.e. electricity, water source, private examination room, sanitation facilities, communication equipment, computer with internet, and emergency transportation). Despite the adequacy basic amenities, there is also a need to improve the quality of health services provided by health centers. As part of President's quick win agenda, health centers are required to have cooperation with the blood transfusion unit particularly to prevent maternal deaths caused by bleeding. An integrated information system is also needed to simplify health centers' recording and reporting systems; thus, the completeness and accuracy of health program data can be assured.

4. Scope of Work

- 1) Health center accreditation;
- 2) A national integrated health information system;
- 3) Procurement of mobile clinic in disadvantaged areas, border areas and outlying islands (DPTK);
- 4) Facilitation of cooperation between health centers and Blood Transfusion Unit.

5. Outcomes

- 1) Increased quality of primary health care services;
- 2) Increased public access to primary health care services.

6. Main Target of the National Development in RPJMN 2015-2019: Human and People Development.**7. Indications of Financing Need**

Loan	:	USD	150,000,000
Grant	:	USD	0
Counterpart Funding	:	USD	15,000,000
Total Financing	:	USD	165,000,000

BB-1519-R0-20-01-0

- | | |
|-------------------------------|--------------------------------------|
| 1. Project Title | : Improvement of Primary Health Care |
| 2. Program Title | : Basic Health Care Program |
| 3. Executing Agency | : Ministry of Health |
| 4. Implementing Agency | : Ministry of Health |
| 5. Duration | : 48 months |
| 6. Location | : Nationwide |

7. Scope of Work

- a. Health center accreditation;
- b. Develop national integrated health information system;
- c. Fulfillment mobile health services unit in the disadvantaged areas, borders and the outlying islands (DTPK);
- d. Facilitating cooperation between health centers and Blood Transfusion Unit (UTD).

8. Outputs

- a. Increasing number of health centers certified accreditation;
- b. Increasing number of inpatient and non-inpatient health centers;
- c. Increasing health care moves (PKB) in the isolated and very isolated area;
- d. Increasing number of health centers in collaboration with the Blood Transfusion Unit (UTD);
- e. Availability of a well-functioning health information system.

9. Project Cost

• Foreign Funding				• Counterpart Funding			
-	Loan	: US\$	150,000,000	-	Central Government	: US\$	15,000,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
<hr/>				<hr/>			
	Sub Total	: US\$	150,000,000		Sub Total	: US\$	15,000,000
<hr/>				<hr/>			
TOTAL : US\$ 165,000,000							

Program for Human Resources Development in Health Sector

BB-1519-R0-21

1. Program Title	: Program for Human Resources Development in Health Sector
2. Executing Agency	: Ministry of Health

3. Background and Justification

The availability of health workforce remains a major challenge in the health sector development in Indonesia. At this time, the number of doctors in Indonesia reached 2 per 10,000 people, whereas WHO recommends availability 10 physicians for every 10,000 residents. Deficiency also occurs for other health professionals such as midwives, sanitarians, energy nutrition and health promotion personnel. Although the number of health workers in Indonesia continues to increase, but the number of health workers is still inadequate to provide maximum service.

Health workforce issues are not only on the availability, but also in aspects of the distribution and placement, as well as quality and performance. The shortage of doctors is pretty high especially in the eastern region of Indonesia such as in Papua Province (32.0 percent), West Papua Province (16.3 percent), and North Maluku Province (14.9 percent). Meanwhile, the quality of the health workforce depends on the quality of schools which they have huge variabilities. Only half of schools are accredited. Students are often not supported with adequate learning and teaching facilities (laboratory, training equipment, etc.). Furthermore, the curriculum is outdated and not well-suited to the current challenges and future demand. Therefore, government needs to invest heavily and urgently in helping schools meet accreditation standards and improve their graduates' quality.

4. Scope of Work

- 1) Improvement of Health Polytechnic and Health Training Center (Poltekkes and Bapelkes), including:
 - a. Construction of buildings and other supporting facilities;
 - b. Provision of teaching and learning tools and equipment;
 - c. Enhancement of curriculum and teaching materials.
- 2) Capacity building for health professionals.

5. Outcomes

- 1) Increased capacity Health Polytechnics and Health Training Centers;
- 2) Increased quality of teaching and learning in health sector;
- 3) Increased competency of health human workers and professionals.

6. Main Target of the National Development in RPJMN 2015-2019: Human and People Development.

BB-1519-R0-21**7. Indications of Financing Need**

Loan	:	USD	240,000,000
Grant	:	USD	0
Counterpart Funding	:	USD	24,000,000
Total Financing	:	USD	264,000,000

BB-1519-R0-21-01-0

- | | |
|-------------------------------|--|
| 1. Project Title | : Improvement of Facilities and Infrastructure for Teaching and Learning Activities in Health Sector |
| 2. Program Title | : Program for Human Resources Development in Health Sector |
| 2. Executing Agency | : Ministry of Health |
| 3. Implementing Agency | : Ministry of Health |
| 4. Duration | : 60 months |
| 5. Location | : Nationwide |

6. Scope of Work

Improved infrastructures for Poltekkes (Polytechnic of Health), BBPK (Center for Health Training), and Bapelkes (Health Training Center) including:

- a. Construction;
- b. Procurement of supporting facilities;
- c. Procurement of teaching and learning facilities.

7. Outputs

- a. Improved Technical Implementation Units (UPT);
- b. Availability and improvement of supporting facilities on health education;
- c. Adequate tools and equipment to support quality teaching and learning process.

8. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 240,000,000	- Central Government	: US\$ 24,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 240,000,000	Sub Total	: US\$ 24,000,000
TOTAL : US\$ 264,000,000			

**Program for Disease Control,
Environmental Health, and
Strengthening Health Research
and Development**

BB-1519-R0-22

- | | |
|----------------------------|--|
| 1. Program Title | : Program for Disease Control, Environmental Health, and Strengthening Health Research and Development |
| 2. Executing Agency | : Ministry of Health |

3. Background and Justification

Indonesia is facing double burden of diseases. While several infectious diseases such as tuberculosis, HIB and AIDS, and malaria still remain high prevalence, there is a rapid increase of non-communicable disease (NCD) at the same time. In 1990 the proportion of the burden of NCD reached 37 percent, then over a decade (2000) it rose to 49 percent and in 2010 became 58 percent from the total burden of disease (Institute for Health Metrics and Evaluation, 2013). Increasing cases of non-communicable diseases in Indonesia, among others caused by changes in modifiable behavior and environmental risk factors.

To response this challenge, one of the health development policies set in the Medium-Term National Development Plan 2015-2019 is to improve disease control and environmental health, through increased epidemiology surveillance, increased preventive and promotive interventions in infectious disease control, outbreaks prevention and control, improved promotion of risk factors reduction, and improved the quality of environmental health including increased access to water and sanitation facilities. In addition, the strengthening of health research and development is also necessary to find breakthroughs in the field of healthcare and to provide data, information, and policy recommendations related to health sector development.

4. Scope of Work

- 1) Construction of buildings and other facilities particularly laboratory;
- 2) Procurement of medical equipment;
- 3) Human Resources Development;
- 4) Promoting, preventing, and special protection for high-risk groups;
- 5) Expansion of access to services, and strengthening disease surveillance systems in 34 provinces of Indonesia;
- 6) Strengthening the capacity of health facilities and infrastructure.

5. Outcomes

- 1) Increased capacity to conduct research in health field;
- 2) Increased public health services;
- 3) Increased control of communicable and non-communicable diseases.

6. Main Target of the National Development in RPJMN 2015-2019: Human and People Development.**7. Indications of Financing Need**

Loan	:	USD	100,400,000
Grant	:	USD	0
Counterpart Funding	:	USD	10,040,000
Total Financing	:	USD	110,440,000

BB-1519-R0-22-01-0

1. Project Title	: Improvement of Capacity on Disease Control, Environmental Health, and Strengthening Health's Research and Development
2. Program Title	: Program for Disease Control, Environmental Health, and Strengthening Health's Research and Development
3. Executing Agency	: Ministry of Health
4. Implementing Agency	: Ministry of Health
5. Duration	: 60 months
6. Location	: Nationwide

7. Scope of Work

- a. Construction of buildings and other facilities particularly laboratory;
- b. Procurement of medical equipment;
- c. Human Resources Development;
- d. Actions of promotion, prevention, and special protection for high-risk groups;
- e. Expansion of access to services, and strengthening disease surveillance systems in 34 provinces of Indonesia;
- f. Strengthening the capacity of health facilities and infrastructure.

8. Output

- a. Strengthening institutional research and development of health;
- b. Adequate laboratory facilities and equipment to support detection and research on different types of viruses / bacteria;
- c. Increased health promotion and education for the general public;
- d. Improving capacity of human resources.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding				<ul style="list-style-type: none">Counterpart Funding			
-	Loan	: US\$	100,400,000	-	Central Government	: US\$	10,040,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
				-	State-Owned Enterprise	: US\$	0
				-	Others	: US\$	0
<hr/>				<hr/>			
Sub Total		: US\$	100,400,000	Sub Total		: US\$	10,040,000
<hr/>							
TOTAL		: US\$	110,440,000				

Health Services Referral Program

BB-1519-R0-23

1. Program Title	: Health Services Referral Program
2. Executing Agency	: 1. Ministry of Health 2. Local Government of Aceh

3. Background and Justification

The high demand for health care needs to be supported by a robust tiered referral system, thus simplifying access to quality health services. With the enactment of the National Health Insurance, the community's access to health care referral is increasing, therefore it needs to be supported by improved facilities, infrastructure, and medical devices to meet the needs of health care.

The challenges remain related to service delivery of healthcare referral facilities including the inadequate infrastructure, the limited facilities and equipment, and the shortage of health professionals. In general, the hospital capacity in providing blood transfusion services is still low. Moreover, there are only eight public hospitals and 33 percent of private hospitals that have met the criteria of comprehensive surgery readiness. Another noteworthy challenges are ineffective referral systems and inadequate information systems including medical record systems. Meanwhile in terms of quality, the main challenge is the accreditation of healthcare referral facilities. In 2014, only 10 out of 514 districts that have already had at least one accredited local hospital.

In the RPJMN 2015-2019, the improvement of equity access to quality healthcare referral services will be achieved through several strategies including: improved quality of national referral hospitals, regional referral hospitals, and local hospitals; strengthened referral systems; developed health information systems; and improved hospital accreditation and health services guideline. By 2019, 481 districts is targeted to have at least one accredited local hospital.

4. Scope of Work

Development of national and provincial referral hospitals and vertical technical unit hospitals, including:

- 1) Procurement of medical equipment.
- 2) Construction of facilities and infrastructure.
- 3) Development of health information systems.
- 4) Strengthening health referral systems.
- 5) Improvement of health workforce capacity.

5. Outcomes

- 1) Increased access and quality of hospital services in various areas.
- 2) Increased number of referral hospitals.

6. Main Target of the National Development in RPJMN 2015-2019: Human and People Development.

BB-1519-R0-23**7. Project Cost**

Loan	:	USD	1,362,400,000
Grant	:	USD	0
Counterpart Funding	:	USD	136,260,000
Total Financing	:	USD	1,498,660,000

BB-1519-R0-23-01-0

- | | |
|-------------------------------|---|
| 1. Project Title | : Strengthening of National Referral Hospitals, Province Referral Hospital and Vertical Technical Units |
| 2. Program Title | : Health Services Referral Program |
| 3. Executing Agency | : Ministry of Health |
| 4. Implementing Agency | : Ministry of Health |
| 5. Duration | : 48 months |
| 6. Location | : Nationwide |

7. Scope of Work

Development of national and provincial referral hospitals and vertical technical unit hospitals, including:

- a. Building construction;
- b. Procurement of medical equipment;
- c. Construction of facilities and infrastructure.

8. Outputs

- a. Increased infrastructure, facilities, and medical equipment (SPA) in 14 (fourteen) National Referral Hospitals;
- b. Improved facilities, infrastructure, and medical equipment (SPA) in 10 (ten) Provincial Referral Hospitals according to the standard as the highest referral hospital in each province;
- c. Improved health services at 39 (thirty nine) Vertical Technical Unit hospitals as a tertiary referral center.

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 1,225,600,000Grant : US\$ 0	<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 125,560,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0
<hr/> <div>Sub Total : US\$ 1,225,600,000</div>	<hr/> <div>Sub Total : US\$ 125,560,000</div>
<div>TOTAL : US\$ 1,351,160,000</div>	

BB-1519-R0-23-02-0

1. Project Title	: Reengineering and Improving The Hospital and Referral System in Selected Aceh Districts
2. Program Title	: Health Services Referral Program
3. Executing Agency	: Local Government of Aceh
4. Implementing Agency	: Local Government of Aceh
5. Duration	: 60 months
6. Location	: Aceh Province

7. Scope of Work

- a. Civil work construction;
- b. Procurement of equipment;
- c. Training/ training-scholarship;
- d. Consulting services;
- e. Development of an integrated service system;
- f. Monitoring;
- g. Evaluation.

8. Outputs

- a. Improved access and quality of health care in Aceh Province;
- b. Improved health care referral system;
- c. Reducing maternal, infant and toddler mortality;
- d. Improved the quality of implementation of the Aceh People's Health Insurance.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 			<ul style="list-style-type: none"> Counterpart Funding 		
-	Loan	: US\$ 106,800,000	-	Central Government	: US\$ 0
-	Grant	: US\$ 0	-	Regional Government	: US\$ 10,700,000
-			-	State-Owned Enterprise	: US\$ 0
-			-	Others	: US\$ 0
Sub Total : US\$ 106,800,000			Sub Total : US\$ 10,700,000		
TOTAL : US\$ 117,500,000					

Provision and Development of Agriculture Infrastructure Program

BB-1519-R0-24

1. Program Title	: Provision and Development of Agriculture Infrastructure Program
2. Executing Agency	: Ministry of Agriculture

3. Background and Justification

Indonesia's population continues to increase, and as a consequence, the demand of nutritious food in sufficient quantities to meet the entire demand will also increase. Up to 2013, the agriculture sector is able to supply 41.2 million tons of rice. Although most products can already be produced domestically, other essential foods such as sugar, soybeans, corn, beef, and poultry have to be obtained through imports, which can jeopardize national food security.

Infrastructure to support agricultural production and productivity is very important in food and agriculture development. Limitation of agricultural infrastructure, low of productive land especially in upland areas, and post-harvest equipment make it difficult to increase agricultural productivity in Indonesia. The high productive land, high quality of infrastructure, and good post-harvest equipment are expected to increase productivity and modernize agriculture sector in Indonesia.

4. Scope of Work

- 1) Development of agricultural infrastructure;
- 2) Conservation of agricultural land especially in the upland areas;
- 3) Development of post-harvest facilities and equipment;
- 4) Establishment of new farmland;
- 5) Cultivation of adaptive agriculture to conditions of specific land;
- 6) Assistances for agricultural input.

5. Outcomes

- 1) Increase food and agriculture production and productivity;
- 2) Improve food and agriculture production and productivity;
- 3) Establish new agricultural land;
- 4) Increased levels of agricultural production;
- 5) National Food Security.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	1,346,842,600
Grant	:	USD	0
Counterpart Funding	:	USD	134,684,300
Total Financing	:	USD	1,481,526,900

BB-1519-R0-24-01-0

1. Project Title	: Exstensification of New Paddy Field Area
2. Program Title	: Provision and Development of Agriculture Infrastructure Program
3. Executing Agency	: Ministry of Agriculture
4. Implementing Agency	: Ministry of Agriculture
5. Duration	: 48 months
6. Location	: Nationwide

7. Scope of Work

- a. Preparation works, including dissemination and program coordination, identification of farmers and prospective location, permittance/approval, survey and land suitability evaluation as well as, design of food estate area;
- b. Construction works, including land clearing and land leveling, establishment of irrigation channel and agricultural access road;
- c. Establishment of farmer settlement;
- d. Providing agricultural tools and machinery;
- e. Providing Organic Fertilizer Processing Unit;
- f. Providing system and post-harvest equipment;
- g. Construction RMU and warehouse;
- h. Land management;
- i. Management of the areas.

8. Outputs

- a. Establishment of food estate region in the area of 500,000 hectares;
- b. Increased of planting and paddy area in food estate region.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	811,166,600	-	Central Government	: US\$	81,116,700
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-	Others	: US\$	0	-			
Sub Total		: US\$	811,166,600	Sub Total		: US\$	81,116,700
TOTAL : US\$ 892,283,300							

BB-1519-R0-24-02-0

1. Project Title	: Upland Development for National Food Security
2. Program Title	: Provision and Development of Agriculture Infrastructure Program
3. Executing Agency	: Ministry of Agriculture
4. Implementing Agency	: Directorate General of Agricultural Infrastructure and Facilities, Ministry of Agriculture
5. Duration	: 48 months
6. Location	: Nationwide

7. Scope of Work

- a. Land use planning in the upland areas;
- b. Land and water conservation in the upland areas;
- c. Conservational agricultural cultivation in the upland areas.

8. Outputs

Plants cultivation with advantages and adaptive to the upland conditions, according to the rules of conservation.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 535,676,000	- Central Government	: US\$ 53,567,600
- Grant	: US\$	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 535,676,000	Sub Total	: US\$ 53,567,600
TOTAL : US\$ 589,243,600			

Agriculture Extension, Education, and Training Improvement Program

BB-1519-R0-25

1. Program Title	: Agriculture Extension, Education, and Training Improvement Program
2. Executing Agency	: Ministry of Agriculture

3. Background and Justification

Promoting and ensuring food security is a main objective and outcome of Indonesia's agricultural development program. Currently, the problem facing agricultural sector is a tendency of decreasing the number of labor and the interest of young people to work in agricultural sector, and also insufficient of farmers' welfare especially in the rural poor villages.

Infrastructure to support agricultural output and to increase interest of human resources especially young generation is an attempt to promote agriculture development. Low interest of young people in agriculture sector also makes it difficult to increase agricultural productivity in Indonesia. Young people who have more ideas and innovation are expected to increase agricultural production in Indonesia.

Moreover, an improvement of farmers' livelihood especially in the rural poor villages is important to increase agricultural productivity. Because it can provide multiplier effect to the farmers' welfare by creating new sources of income, improving food security, and reducing poverty in the rural poor villages.

4. Scope of Work

- 1) Development of agri-business information center and the center of the Information Technology (IT Center) as well as other supporting facilities;
- 2) Development of knowledge and experience management;
- 3) Improvement of food and agricultural productivity;
- 4) Development of human resources and young people trained in agriculture sector;
- 5) Development of agricultural Extension Institutions;
- 6) Improvement of farmers' group adopt to agriculture production and marketing system;
- 7) Improvement of agricultural infrastructure;
- 8) Improve the capacity for policy analysis and for pro-poor rural sector policy formulation and for mainstreaming gender within the sector.

5. Outcomes

- 1) Increase food and agriculture production and productivity;
- 2) Improve food and agriculture production and productivity;
- 3) Establish of agri-business center and agricultural information center;
- 4) Increase the number of qualified human resources in agricultural sector;
- 5) Improve agri-business technology;
- 6) Improve access for poor rural communities to information, technology, market, capital, and other agricultural facilities;
- 7) Improve agricultural Extension Institution;

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.

BB-1519-R0-25**7. Indications of Financing Need**

Loan	:	USD	98,900,000
Grant	:	USD	500,000
Counterpart Funding	:	USD	19,780,000
Total Financing	:	USD	119,180,000

BB-1519-R0-25-01-0

- 1. Project Title** : Young Entrepreneur Growth and Development for Sustainably Agricultural Development
- 2. Program Title** : Agriculture Extension, Education, and Training Improvement Program
- 3. Executing Agency** : Ministry of Agriculture
- 4. Implementing Agency** : a. National Agricultural Education Center, Ministry of Agriculture
b. National Agricultural Training Center, Ministry of Agriculture;
c. State Agriculture Vocational High School
d. District Agriculture Vocational High School
e. Provincial Agricultural Training Center
- 5. Duration** : 60 months
- 6. Location** : DKI Jakarta, South Sumatera, North Sumatera, West Kalimantan, South Kalimantan, Central Kalimantan, and East Nusa Tenggara Province

7. Scope of Work

- a. Knowledge and experience transfer (training, workshop, internship, guidance, and meeting);
- b. Establishment and operation of business center and purchase of agricultural machinery, tools, fertilizer, chemicals and seed;
- c. Farm production (food crops, horticultural crops, livestock and estate crops);
- d. Fund management (farmer to farmer training activities and farm facility renting activities);
- e. Construction of center and equipment of IT system and networks;
- f. Management support.

8. Outputs

- a. Increase in knowledge, skill and capacity of alumni/young farmers/entrepreneurs/ Farmer Agricultural and Rural Training Centers (FARTC) managers;
- b. Availability of new agricultural IT & information center;
- c. Marketing of agricultural product through new business center;
- d. Rental and repair of agricultural equipment and materials;
- e. Farmer to farmer training activities.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 68,900,000 - Grant : US\$ 				<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 13,780,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 			
Sub Total		: US\$	68,900,000	Sub Total		: US\$	13,780,000
TOTAL : US\$ 82,680,000							

BB-1519-R0-25-02-0

1. Project Title	: Rural Empowerment and Agricultural Development (READ) Programme in Sulawesi Island – Phase II
2. Program Title	: Agriculture Extension, Education, and Training Improvement Program
3. Executing Agency	: Ministry of Agriculture
4. Implementing Agency	: Ministry of Agriculture
5. Duration	: 60 months
6. Location	: Sulawesi Island

7. Scope of Work

- a. Community empowerment;
- b. Livelihood improvement;
- c. Development of agricultural infrastructure;
- d. Project management.

8. Outputs

- a. Village institutions and agriculture activity groups are functioning effectively;
- b. Target group farmers adopt improved production and marketing systems, improved natural resource management systems, and establish new off-farm enterprises and/or develop further existing ones;
- c. Improved infrastructure in the target villages with the communities participating in their operation and maintenance;
- d. Increased the capacity for policy analysis and pro-poor rural sector policy formulation, and gender mainstreaming within the agriculture sector.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	30,000,000	-	Central Government	: US\$	6,000,000
-	Grant	: US\$	500,000	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-				-	Others	: US\$	0
Sub Total : US\$ 30,500,000				Sub Total : US\$ 6,000,000			
TOTAL : US\$ 36,500,000							

Improving Labor Competitiveness Program

BB-1519-R0-26

1. Program Title	: Improving Labor Competitiveness Program
2. Executing Agency	: Ministry of Manpower

3. Background and Justification

High economic growth that creates quality employment opportunities has become main agenda of the National Medium Term Development Plan (RPJMN) 2015-2019. The biggest challenge is to realize inclusive growth by ensuring job opportunities that will give more sustainable livelihood to the people.

In addition to this challenge, there are also several problems in the labor market systems. First, low quality of workers led to low productivity and competitiveness. Second, the mismatch between the needs of industrial workers with education and training that led to the company/industry experiencing difficulties obtaining labor. Third, the transformation of the structure of the labor market more toward the service sector with low productivity.

4. Scope of Work

- 1) Provision of facilities and equipment Training Center mainly in maritime sector;
- 2) Development of training software;
- 3) Provision of infrastructure to fill competent labor in their respective fields.

5. Outcomes

- 1) Increased quantity and quality of competent human resources in their respective fields;
- 2) Increased competitiveness of Indonesia's human resources.

6. Main Target of the National Development in RPJMN 2015-2019: Human and People Development.**7. Project Cost**

Loan	:	USD	92,308,000
Grant	:	USD	0
Counterpart Funding	:	USD	2,500,000
Total Financing	:	USD	94,808,000

BB-1519-R0-26-01-0

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|-------------------------------|--|
| 1. Project Title | : Development of Maritime Vocational Training Centers |
| 2. Program Title | : Improving Labor Competitiveness Program |
| 3. Executing Agency | : Ministry of Manpower |
| 4. Implementing Agency | : Directorate General of Training and Productivity, Ministry of Manpower |
| 5. Duration | : 60 months |
| 6. Location | : Maluku, South Sulawesi, and West Nusa Tenggara Province. |

7. Scope of Work

- a. Provision of training equipment and facilities at Maritime Vocational Training Center;
- b. Improvement of workshops;
- c. Development of training software;
- d. Training of trainer.

8. Outputs

- a. Availability of adequate equipment and training facilities in Maritime Vocational Training Center;
- b. Compatibility of workshop with the needs of training in maritime sector;
- c. Availability of training software which meets demands in maritime industry.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 				<ul style="list-style-type: none"> Counterpart Funding 			
-	Loan	: US\$	92,308,000	-	Central Government	: US\$	2,500,000
-	Grant	: US\$	0	-	Regional Government	: US\$	0
-				-	State-Owned Enterprise	: US\$	0
-	Others	: US\$	0	-			
<hr/> Sub Total : US\$ 92,308,000				<hr/> Sub Total : US\$ 2,500,000			
TOTAL : US\$ 94,808,000							

Improvement of Fisheries Facilities Program

BB-1519-R0-27

1. Program Title	: Improvement of Fisheries Facilities Program
2. Executing Agency	: Ministry of Marine Affairs and Fisheries

3. Background and Justification

Indonesia is an archipelago with a very large sea area. However its potential marine economy have not yet been fully utilized. Moreover, Illegal, Unreported and Unregulated (IUU) Fishing activities is very detrimental to the management and sustainability of fisheries resources. In the Medium-Term National Development Plan (RPJMN) 2015-2019, Indonesia is expected to be the world maritime axis. Therefore, support to improve the maritime sector, especially fisheries facilities is urgently needed.

4. Scope of Work

- 1) Development of fisheries facilities;
- 2) Procurement of goods and equipment;
- 3) Capacity building;

5. Outcomes

- 1) Increased fishing vessel services;
- 2) Increased national security/territorial integrity;
- 3) Reduced potential of economic losses due to Illegal, Unreported and Unregulated (IUU) Fishing and the utilization of fishing ports abroad;
- 4) Optimized application of CCRF (Code of Conduct for Responsible Fisheries);
- 5) Increased regional development and distribution of marine and fisheries development.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	107,000,000
Grant	:	USD	2,160,000
Counterpart Funding	:	USD	4,261,000
Total Financing	:	USD	113,421,000

BB-1519-R0-27-01-0

1. Project Title	: Outer Ring Fishing Ports Development Phase I
2. Program Title	: Improvement of Fisheries Facilities 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	: Nationwide

7. Scope of Work

- 1) Preparation, including development studies and detailed design;
- 2) Construction work of basic, functional, and support facilities;
- 3) Supply of goods and equipment, among other for data Processing Equipment and Office Equipment, Maritime and fishing ports, Environmental Control, Communication Network and Network System Information;
- 4) Training and Education:
 - a. Fishing port overseas training;
 - b. Training Capacity Development (Management, Operations & Maintenance of Fishing Ports);
 - c. Dissemination meetings, workshops, and consultations; and
- 5) Maintenance and supervision.

8. Outputs

The availability of fishing ports facilities in 8 (eight) locations with international scale service standard

9. Project Cost

<ul style="list-style-type: none">Foreign Funding<ul style="list-style-type: none">Loan : US\$ 107,000,000Grant : US\$ 2,160,000			<ul style="list-style-type: none">Counterpart Funding<ul style="list-style-type: none">Central Government : US\$ 4,261,000Regional Government : US\$ 0State-Owned Enterprise : US\$ 0Others : US\$ 0		
Sub Total : US\$ 109,160,000			Sub Total : US\$ 4,261,000		
TOTAL : US\$ 113,421,000					

Program for Development and Guidance of Meteorology, Climatology, and Geophysics

BB-1519-R0-28

1. Program Title	: Program For Development and Guidance of Meteorology, Climatology, and Geophysics
2. Executing Agency	: Meteorology, Climatology, and Geophysics Agency

3. Background and Justification

Indonesia is an archipelagic country consisting of more than 17,000 islands that straddles the equator and flanked by Pacific and Indian Oceans. The geographical position has, in fact, posed a crucial impact on the climate characteristics. In addition to that, the mountainous relief spans along from the north of Sumatera crossing the Java Island reaching the West Papua and stranded in the north of Sulawesi, causes a massive impact on the rain characteristic all over Indonesia. As an archipelagic country located at the center of the strongest convective area and lays right at the equatorial with 70% of oceanic water, Indonesia has embarked on small scale modernization to upgrade its weather and climate services and comprises of modernizing of basic observation and processing system equipments, capacity building and dissemination services.

The Strengthening Project was realized not only by the urgent and ultimate needs to upgrade the existing basic observation infrastructure, but also by the inevitability fact of climate change phenomena that directly affects the increasing occurrence and frequency of extreme weather and climate events as well as picking upon fulfilling the international standards and requirements on weather and climate observation and information services.

The recent 2015 the World Meteorological Organization (WMO) 17th Congress (CG-17) has adopted new paradigm of impact based forecasting and risk based warning. This new vision can only be materialized through the support of modern and automatic observation infrastructure, computationally simulated processed to produce seamless weather/ climates information and disseminated on the holistic service delivery mode. Further, WMO has adopted the so-called pre-operational phase of WMO Integrated Global Observation System (WIGOS) that guides and directs all WMO members in achieving the goals by end of 2020, anticipating the progress of Global Air Navigation Program (GANP) by 2028.

On the other hand, within the medium term national development plan 2015-2019, the strategic objectives of national development in the sub-fields of meteorology, climatology and geophysics is thus aimed at addressing those challenges by: (1) the more frequent occurrence of hydro-meteorological based disaster, (2) the inevitability of climate change, and (3) the ever increasing necessity of early warning systems in the aforementioned three sub-fields.

The successful implementation of the aforementioned program is thus directly materialized the national program set out in the Presidential Decree No. 2/2015 that emphasizes on the presence of state in protecting and providing security to all citizens from all of the potential disruptions including disaster and in supporting the growth of economic independence through a variety of sectors, including climate sensitive sectors.

4. Scope of Work

- 1) Development of weather and climate observation networks;
- 2) Development of automatic observation infrastructure base;
- 3) Development of weather and climate computing systems.

BB-1519-R0-28**5. Outcomes**

- 1) Expediting with higher accuracy in producing weather and climate information and its service delivery;
- 2) Extending the service covering climate sensitive sectors or thematic fields, among others agriculture, plantation, husbandry, fishery, tourism, offshore exploration, and air and marine transportation, energy, and sports;
- 3) Improving the organization knowledge capacity and capability.

6. Main Target of the National Development in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	150,000,000
Grant	:	USD	0
Counterpart Funding	:	USD	9,000,000
Total Financing	:	USD	159,000,000

BB-1519-R0-28-01-0

1. Project Title	: Strengthening Climate and Weather Service Capacity- Phase II
2. Program Title	: Program for Development and Guidance of Meteorology, Climatology, and Geophysics
3. Executing Agency	: Agency of Meteorology and Geophysics
4. Implementing Agency	: Agency of Meteorology and Geophysics
5. Duration	: 48 months
6. Location	: Nationwide

7. Scope of Work

- Scaling up the capacity of basic weather and climate observation infrastructure;
- Improving marine observation system and its infrastructure;
- Reinforcement information and communication systems;
- Human resource capacity development.

8. Outputs

- Denser Meteorological and Climatological Observation Network, especially for marine observation;
- Establishment of calibration workshop;
- Automation observation infrastructure;
- Weather and climate computational (Numerical Simulation) facility;
- Integrated surface, upper-surface and space based observation system;
- Increased the capacity of human resources through master and PhD program.

9. Project Cost

<ul style="list-style-type: none"> Foreign Funding 		<ul style="list-style-type: none"> Counterpart Funding 	
- Loan	: US\$ 150,000,000	- Central Government	: US\$ 9,000,000
- Grant	: US\$ 0	- Regional Government	: US\$ 0
		- State-Owned Enterprise	: US\$ 0
		- Others	: US\$ 0
Sub Total	: US\$ 150,000,000	Sub Total	: US\$ 9,000,000
TOTAL : US\$ 159,000,000			

Science Park and Technopark Development Program

BB-1519-R0-29

1. Program Title	: Science Park and Technopark Development Program
2. Executing Agency	: Agency for the Assessment and Application of Technology

3. Background and Justification

Research and marine surveys have been conducted by many research institutions and surveys in Indonesia, but in many cases, these institutions have not been able to overcome the problems of research due to the vast sea area and the advancement of astronomy new knowledge. As mandated by the ratification of UNCLOS (United Nations Convention on the Law of the Sea) in 1982, several maritime countries have developed marine research and form the National Ocean Research Center, among others, Ifremer in France, NOAA in America, JAMSTEC in Japan, KORDI in Korea, Flo in China, NIOS in the Netherlands, and BIO in Canada, while Indonesia does not have a national marine science and technology center like those of these countries.

As a large maritime country, Indonesia requires reliable marine research institution. The National Medium-Term Development Plan (RPJMN) 2015-2019 has targets to promote the development of marine and maritime economic role in national development. To this end, in the framework of national maritime and marine development, an attempt is made to defend the sovereignty and improve prosperity in order to build an integrated maritime economy by optimizing the utilization of marine resources in a sustainable manner.

4. Scope of Work

- 1) Development of the National Maritime Science and Technology Park;
- 2) Revitalization of the National Research Vessel;
- 3) Increasing marine survey equipment;
- 4) Development of data processing hardware and software;
- 5) Development of thematic research in the field of marine science and technology;
- 6) Development of marine infrastructure.

5. Outcomes

- 1) Established and operation of the National Maritime Science and Technology Park;
- 2) Implemented revitalization of the National Research Ships and marine survey equipment;
- 3) Increased service and development and innovation in the field of marine science and technology;
- 4) Established marine facilities and infrastructure.

6. National Development Main Target in RPJMN 2015-2019: Main Sector Development.**7. Indications of Financing Need**

Loan	:	USD	114,400,000
Grant	:	USD	0
Counterpart Funding	:	USD	17,200,000
Total Financing	:	USD	131,600,000

BB-1519-R0-29-01-0

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| 1. Project Title | : Development of Maritime National Science and Technopark (NTSP) in The Northern Penajam Paser and Revitalization Infrastructure Marine Survey |
| 2. Program Title | : Science Park and Technopark Development Program |
| 3. Executing Agency | : Agency for the Assessment and Application of Technology |
| 4. Implementing Agency | : Agency for the Assessment and Application of Technology |
| 5. Duration | : 48 months |
| 6. Location | : Northern Penajam Paser Regency, East Kalimantan Province |
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7. Scope of Work

- a. Construction of jetties for Indonesian research vessels, world class laboratories, workshop, land supporting facilities and infrastructures;
- b. Revitalisation of Research Vessels Baruna Jaya I, II, III, and IV and survey equipments.

8. Outputs

- a. Maritime National Science and Technopark at Northern Penajam Paser Regency, which consist of development of special port for national research vessels, marine laboratories, central of maritime information, warehouse, workshop, and office;
- b. Revitalized research vessels of Baruna Jaya I, II, III, and IV, and survey equipment to support national maritime research programs.

9. Project Cost

<ul style="list-style-type: none"> • Foreign Funding - Loan : US\$ 114,400,000 - Grant : US\$ 0 			<ul style="list-style-type: none"> • Counterpart Funding - Central Government : US\$ 17,200,000 - Regional Government : US\$ 0 - State-Owned Enterprise : US\$ 0 - Others : US\$ 0 		
<hr/> Sub Total : US\$ 114,400,000			<hr/> Sub Total : US\$ 17,200,000		
TOTAL : US\$ 131,600,000					