

Project Administration Manual

Project Number: 52316-001
Loan Number: LXXXX
23 May 2019

Republic of Indonesia: Emergency Assistance for Rehabilitation and Reconstruction

Component 1: Public Works Infrastructure

ABBREVIATIONS

ADB	–	Asian Development Bank
CPMU	–	Central Project Management Unit
DGHS	–	Directorate General of Human Settlements
DGWR	–	Directorate General of Water Resources
DMF	–	Design and Monitoring Framework
EARF	–	Environmental Assessment and Review Framework
EARR	–	Emergency Assistance for Rehabilitation and Reconstruction
EMP	–	Environmental Management Plan
FMA	–	Financial Management Assessment
IEE	–	Initial Environmental Examination
MPWH	–	Ministry of Public Works and Housing
PAM	–	Project Administration Manual
PMC	–	Project Management Consultant
PMU	–	Project Management Unit
PIU	–	Project Implementation Unit
RCCDF	–	Resettlement and Customary Communities Development Framework
RCCDP	–	Resettlement and Customary Communities Development Plan
RRP	–	Report and Recommendation of the President to the Board
SBD	–	Standard Bidding Documents
SPS	–	Safeguard Policy Statement 2009

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Project Administration Manual Purpose and Process

The project administration manual (PAM) describes the essential administrative and management requirements to implement the project on time, within budget, and in accordance with the policies and procedures of the government and Asian Development Bank (ADB). The PAM should include references to all available templates and instructions either through linkages to relevant URLs or directly incorporated in the PAM.

The executing and implementing agencies are wholly responsible for the implementation of ADB-financed projects, as agreed jointly between the borrower and ADB, and in accordance with the policies and procedures of the government and ADB. ADB staff is responsible for supporting implementation including compliance by executing and implementing agencies of their obligations and responsibilities for project implementation in accordance with ADB's policies and procedures.

At loan negotiations, the borrower and ADB shall agree to the PAM and ensure consistency with the loan agreement. Such agreement shall be reflected in the minutes of the loan negotiations. In the event of any discrepancy or contradiction between the PAM and loan agreement, the provisions of the loan agreement shall prevail.

After ADB Board approval of the project's report and recommendations of the President (RRP), changes in implementation arrangements are subject to agreement and approval pursuant to relevant government and ADB administrative procedures (including the Project Administration Instructions) and upon such approval, they will be subsequently incorporated in the PAM.

I. PROJECT DESCRIPTION

1. The Government of Indonesia has requested Asian Development Bank (ADB) a loan in the amount of \$297.75 million for the Emergency Assistance for Rehabilitation and Reconstruction (EARR), which supports the government in rebuilding infrastructure damaged by devastating disaster events in Central Sulawesi in September 2018. It will support rehabilitation and reconstruction of education facilities, water supply treatment and distribution facilities, water resources infrastructure, ports, and airport. All infrastructure will be built to higher standards of disaster resilience.

A. Impact and Outcome

2. The EARR is aligned with the following impact: socio-economic impact of disasters reduced.¹ The EARR will have the following outcome: access for affected people, including women and children, to resilient and inclusive infrastructure restored.

B. Outputs

3. Component 1: Public Works Infrastructure:

- (i) **Output 1: Human settlement infrastructure constructed, rehabilitated, and upgraded.** The output will construct, rehabilitate, and/or upgrade (a) education facilities² and (b) water supply (treatment and distribution facilities) infrastructure. The facilities will be built back better to higher standards of disaster resilience, which will ensure that risks from future hazards are reduced through structural design features. At the same time, nonstructural measures such as disaster preparedness plans will also be implemented. The output will ensure that sustainability plans are in place and the capacity of agencies is strengthened to better manage water supply services.
- (ii) **Output 2: Water resources infrastructure constructed, rehabilitated and or upgraded.** The output will construct, rehabilitate, and/or upgrade (i) the Gumbasa irrigation system; (ii) the PASIGALA raw water supply system; and (iii) coastal protection to prevent coastal erosion and tidal flooding. Where possible, nature-based solutions will be promoted. The river basin organization will be strengthened to better design resilient infrastructure, improve O&M of assets, and stay equipped with hydrometeorological instruments for managing water flows across the river basin.

4. Component 2: Transportation Infrastructure:

- (i) **Output 3: Ports rehabilitated and reconstructed.** The output will (a) rehabilitate the damaged ports in Pantoloan, Donggala, and Wani; (b) restore and improve their operating capacity; and (c) establish safety and emergency response plans for the rehabilitated ports.
- (ii) **Output 4: Airport rehabilitated and reconstructed.** The output will repair and/or reconstruct the runway, terminal building, and related infrastructure of Mutiara Sis Al Jufri Airport in Palu and will establish a safety and emergency response plan for the rehabilitated airport.

¹ Government of Indonesia. *National Medium-Term Development Plan 2016–2019*. Jakarta.

² This includes reconstruction of the National Islamic University, one of the main universities in Central Sulawesi, which was severely damaged as a result of the tsunami.

5. **Subprojects.** The EARR will apply a sector lending approach in selecting subprojects under each of the outputs. To be financed under the project, these subprojects will need to comply with the applicable selection criteria described in Section III. D Subprojects Selection Criteria. Brief profiles of potential subprojects linked to Output 1 and Output 2, together with description of how such subprojects are to be supported through ADB's technical assistance resources, are in Appendix 1.³

6. The Ministry of Public Works and Housing (MPWH) will be responsible for activities under Component 1 (Outputs 1 and 2), while the Ministry of Transportation (MOT) will cover activities under Component 2 (Output 3 and 4).

7. This Project Administration Manual (PAM) sets out the implementation arrangements for Component 1: Public Works Infrastructure.

II. IMPLEMENTATION PLANS

A. Project Readiness Activities

Table 1: Schedule of Project Readiness Activities

Indicative Activities	2019						Responsible Party
	April	May	June	July	Aug	Sept	
Advance contracting actions	X	X	X	X	X		MPWH, ADB
Government budget inclusion			X	X			MPWH, MOF
Retroactive financing actions	X	X	X	X	X		MPWH, ADB
Establish project implementation arrangements		X	X				MPWH, BAPPENAS (steering committee)
Loan Negotiations		X					ADB, MOF
ADB Board approval			X				ADB
Loan signing				X			ADB, MOF
Government legal opinion provided					X		MOLHR
Loan effectiveness						X	ADB, MOF

ADB = Asian Development Bank, BAPPENAS = Badan Perencanaan Pembangunan Nasional (National Development Planning Ministry), MOF = Ministry of Finance, MOLHR = Ministry of Law and Human Rights, MPWH = Ministry of Public Works and Housing.

Source: Asian Development Bank.

³Technical assistance from various ADB sources supported the government in undertaking post-disaster needs assessment, preparing the Reconstruction Master Plan. Ongoing technical assistance includes facilitating distribution of housing reconstruction grants, preparing pre-feasibility study for water supply and water distribution interventions and preparing a framework for monitoring the implementation of the Master Plan. Funds from ongoing loans including the Accelerating Infrastructure Delivery through Better Engineering Services Project and the Flood Management in Selected River Basins Sector Project are used to prepare detailed engineering designs for water resources and urban infrastructure facilities under the EARR.

Outputs and Activities		2019					2020					2021					2022					2023		
		M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
B.2	Reconstruction Gumbasa (primary, secondary, tertiary) including liquefaction counter measures (deep well, parallel drain and others) middle stream - 2,500 ha																							
1	Recruit consultants under the Accelerating Infrastructure Delivery through Better Engineering Services (including finalization of the TOR and Cost Estimate)																							
2	Technical works: Appraise subproject, prepare SSR, prepare engineering DED and bidding document																							
3	Undertake safeguard activities																							
4	Procure Works (1S1E postqualification)																							
5	Construction (including mobilization and commissioning)																							
B.3	Reconstruction Gumbasa (primary, secondary, tertiary) including liquefaction counter measures (deep well, parallel drain and others) downstream - 2,000 ha																							
1	Recruit consultants under the Accelerating Infrastructure Delivery through Better Engineering Services (including finalization of the TOR and Cost Estimate)																							
2	Technical works: Appraise subproject, prepare SSR, prepare engineering DED and bidding document																							
3	Undertake safeguard activities																							
4	Procure Works (1S1E postqualification)																							
5	Construction (including mobilization and commissioning)																							
C	Upgrading/Construction of Raw Water Supply System of WUNO, PASIGALA, and PANEKI																							
1	Recruit consultants under the Accelerating Infrastructure Delivery through Better Engineering Services (including finalization of the TOR and Cost Estimate)																							
2	Technical works: Appraise subproject, prepare SSR, prepare engineering DED and bidding document																							
3	Undertake safeguard activities																							
4	Procure Works (1S1E postqualification)																							
5	Construction (including mobilization and commissioning)																							
D	Procurement of Hydrometeorological and Telemetry equipment																							
1	Technical review and preparation of specifications																							
2	Procurement of Goods (RFQ)																							
3	Installation (including mobilization and commissioning)																							
E	Engineering and Management Consultant BWSS III (DGWR)																							
1	Consultant recruitment (including preparation of TOR and Cost Estimate) QCBS																							
2	Consulting service delivery																							
F	Engineering and Management Consultant Central Sulawesi Settlement Infrastructure Agency (DGHS)																							
1	Consultant recruitment (including preparation of TOR and Cost Estimate) QCBS																							
2	Consulting service delivery																							
F	Project Management, PMU, DGWR																							
1	Consultant recruitment (including preparation of TOR and Cost Estimate) QCBS																							
2	Consulting service delivery																							

BWSS III = Regional River Basin Organization Sulawesi III, DED = Detailed Engineering Design, DGHS = Directorate General of Human Settlements, DGWR = Directorate General of Water Resources, PMU = Project Management Unit, SSR = Subproject Summary Report, UKL-UPL = Environmental Monitoring Planning & Management, IAIN = State Islamic University, WTP = Water Treatment Plant.

III. PROJECT MANAGEMENT ARRANGEMENTS

A. Project Implementation Organizations

Table 3: Roles and Responsibilities of Implementation Organizations

Project Implementation Organizations	Management Roles and Responsibilities
National Steering Committee Ministry of Finance National Development Planning Ministry Ministry of Public Works and Housing Ministry of Transportation Ministry of Religious Affairs	<ul style="list-style-type: none"> Oversee progress and provide guidance on the project implementation Monitor and evaluate the overall project performance and outcomes Review and endorse annual work plans
Regional Steering Committee Governor (Sekda), Mayor/District Head Subnational sectoral agencies	<ul style="list-style-type: none"> Ensure integration between project and subnational funded reconstruction activities Provide guidance on land use planning and land acquisition for the subprojects
Executing Agency Ministry of Public Works and Housing through the Directorate General of Water Resources	<ul style="list-style-type: none"> Overall responsible for implementation of subprojects Will establish a Central Project Management Unit (CPMU) within the Directorate General of Water Resources (DGWR) to consolidate activities and reporting from Project Management Units (PMUs) in the two Directorate Generals of Water Resources and Human Settlements in Jakarta and Project Implementing Units (PIUs) in Central Sulawesi. Supported by a secretariat consisting of representatives of concerned Directorates. The CPMU secretariat will be headed by Director of Water Resources Development, DGWR and staffed with financial management, monitoring and reporting, procurement, social and environmental safeguards, gender, and technical personnel. Ensure that loan covenants are complied with Maintain project accounts, monitor financial and physical progress, and report such progress to ADB Prepare withdrawal applications (WA) including retention of supporting documents and submit the WAs (through MOF) to ADB. Lead and coordinate activities related to financial management and financial audit Consolidate quarterly and annual reports, including safeguards and audited annual project financial statements and submit to ADB.
Project Management Units Directorate General of Water Resources and Directorate General of Human Settlements	<ul style="list-style-type: none"> Establish PMUs headed by a project director and staffed with social and environmental safeguards, gender, procurement, financial management and technical personnel Select and appraise subprojects according to subproject selection criteria. Provide quarterly and annual reports including audited annual financial statements as required under the loan agreement Provide operational support for project activities Coordinate with the government and partner agencies for successful implementation of the project Prepare annual contract awards and disbursement projections, requesting budgetary allocations for counterpart funds;
Project Implementing Units <u>Output 1:</u> Central Sulawesi Settlement Infrastructure Agency under the Directorate General of Human Settlements	<ul style="list-style-type: none"> Establish PIUs headed by a project director and staffed with social and environmental safeguards, gender, procurement, financial management and technical personnel Responsible for implementation of all subprojects under each implementing agency's purview Recruit design and supervision consultant for all subprojects under its purview

Project Implementation Organizations	Management Roles and Responsibilities
<u>Output 2:</u> Central Sulawesi River Basin Organization (<i>Balai Wilayah Sungai Sulawesi III</i>) under the Directorate General of Water Resources	<ul style="list-style-type: none"> • Prepare safeguards planning documents, implement environmental and social safeguards plans, and monitor safeguards-related activities for ADB and government requirements. • Undertake day-to-day implementation activities • Supervise design, supervision and management consultants • Manage the procurement process (prepare bidding documents, manage bidding process, submit required documents to ADB for required clearances) in coordination with Central Sulawesi Procurement Agency • Implement procurement, safeguards activities and gender action plan • Manage financial management including prepare budget, annual projections, process invoices and withdrawal applications etc
Ministry of Finance	<ul style="list-style-type: none"> • Establishment of advance account on behalf of the executing agency. • Allocation and timely release of counterpart funds • Authorize withdrawal application submitted by the executing agency. • Communicate with ADB for any amendments in the reallocation of the loan amount. • Administer advance account
DKI Jakarta II and Central Sulawesi Procurement Agency (MPWH)	<ul style="list-style-type: none"> • Conduct procurement for packages under the CPMU and PIU authorities
Experts panel	<ul style="list-style-type: none"> • Composed of experts in seismologist, paleo seismologist, geotechnical, tsunami science and engineering, tsunami hazard assessment and mitigation, port harbor and coastal infrastructure, coastal engineering, coastal natural protection, structural engineering, civil engineering, earthquake geodetic, architect, socio-cultural expert. • Advise on planning and detailed engineering designs to ensure technical soundness and higher resilience
Provincial and Local Implementation Partners	<ul style="list-style-type: none"> • Issuing of master plan and spatial plan • Facilitate land clearance • Ensure issuing of relevant permits • Integration of activities
Asian Development Bank	<ul style="list-style-type: none"> • Undertake regular project reviews and facilitate implementation of the project, including compliance by the executing agency and implementation agencies to obligations and responsibilities

Source: Asian Development Bank.

B. Key Persons Involved in Implementation

Table 4: Key Persons Involved in Implementation

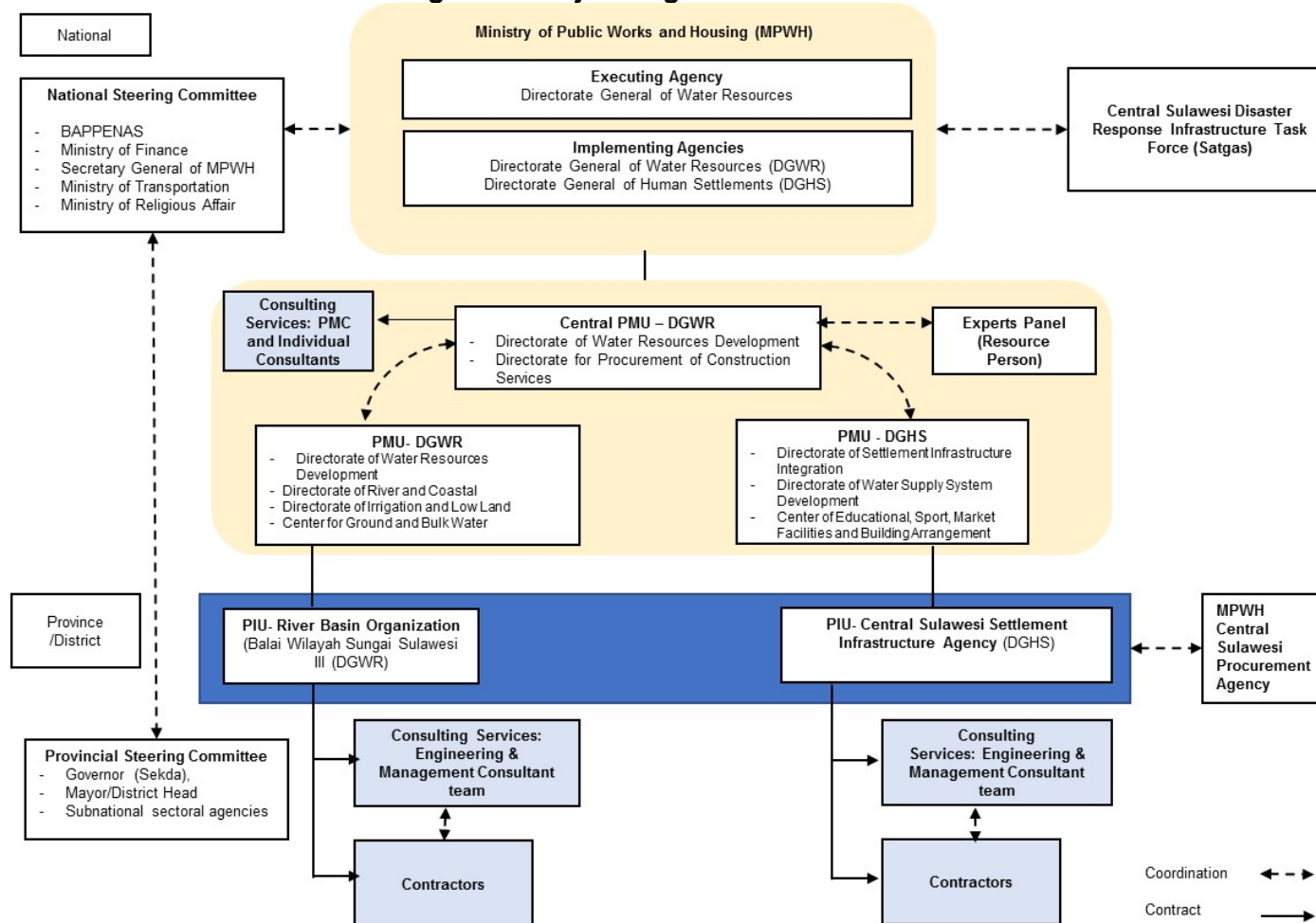
Executing Agency		
Ministry of Public Works and Housing	Officer's Name	: Mr. Hari Suprayogi
	Position	: Director General Water Resources
	Office Address	: Jl. Pattimura No.20 – Jakarta Selatan
	Email address	: dirjen.sda01@gmail.com
	Telephone No.	: +62 722 2804
CPMU/DGWR PMU Secretariat	Officer's Name	: Mr. Edy Juharsyah
	Position	: Director of Water Resources Development, Directorate General of Water Resources
	Office Address	: Jl. Pattimura No.20 - Jakarta Selatan

DGHS PMU Secretariat	Email address	:	binaprogramsda@gmail.com
	Telephone No.	:	
	Officer's Name	:	Mr. Edward Abdurrahman
	Position	:	Director of Integration on Settlements Infrastructure, Directorate General of Human Settlement
Implementing Agencies Central Sulawesi River Basin Organization (<i>Balai Wilayah Sungai</i> Sulawesi III)	Office Address	:	Jl. Pattimura No.20 - Jakarta Selatan
	Email address	:	keterpaduan@gmail.com
	Telephone No.	:	+62 8158012999
		:	
Central Sulawesi Settlement Infrastructure Agency	Officer's Name	:	Yusuf M. Tambing
	Position	:	Head of Balai
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		:	
	Officer's Name	:	Ferdinan Kanalo
	Position	:	Head of Balai
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		:	

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C. Project Organization Structure

Figure 1: Project Organization Structure



BAPPENAS = Badan Perencanaan Pembangunan Nasional (National Development Planning Ministry), CPMU = Central Project Management Unit, DGHS = Directorate General of Human Settlements, DGWR = Directorate General of Water Resources, MPWH = Ministry of Public Works and Housing, PMC = Project Management Consultant, PIU = Project Implementation Unit.

Source: Asian Development Bank

D. Selection and Approval of Subprojects

8. The project implementation units (PIUs) established under each implementing agency will identify, evaluate, and select subprojects for endorsement by the project management unit (PMU), based on the following criteria: (i) consistency of subproject objectives with the overall purpose of the Project and their inclusion in the Master Plan for Recovery and Reconstruction for Central Sulawesi and/or MPWH Action Plan; (ii) quality and resilience standards; (iii) safeguards compliance; and (iv) economic viability and financial sustainability.

1. Subproject Selection Criteria

a. Criterion 1: Subproject Objectives

9. Subproject will be included if:

- (i) it is listed in the Master Plan for Recovery and Reconstruction for Central Sulawesi and/or MPWH Action Plan;
- (ii) it will reconstruct, retrofit, or repair damaged infrastructure consistent with the EARR outputs description; and
- (iii) it will restore and/or improve or build back better damaged facilities to pre-disaster conditions.
- (iv) it will not finance deferred operation and maintenance activities.

b. Criterion 2: Quality Control Standards

10. Reconstruction or rehabilitation of infrastructures will be in accordance with (i) best practices in disaster risk reduction and management, multi-hazard resistance standards, cost effectiveness alternatives based on a review of technical options available to address the identified problems, and lessons learned from previous disasters and/or similar projects in the country or region; and (ii) incorporation of technological improvements and the Government of Indonesia's and ADB requirements for quality control. The design will (i) consider a range of technical alternatives and select options based on least life-cycle costs and economic viability; (ii) maximize support to communities and minimize adverse environmental and social impacts; and (iii) optimize timescales for implementation.

11. Subprojects will use appropriate design and construction standards. As applicable, geotechnical and relevant surveys and investigations will be undertaken.

c. Criterion 3: Environmental and Social Safeguards

12. Subprojects will conform with ADB's Safeguards Policy Statement (SPS) 2009 with respect to social and environment considerations. Subprojects with significant environmental and involuntary resettlement impact (category A), or with significant impacts on indigenous peoples or customary communities (category A), will be excluded. Subprojects with activities described in ADB's Prohibited Investment Activities List (Appendix 5 of ADB's SPS 2009) will also be excluded.

i. Environment

13. The following subprojects are not eligible for funding under the project:

- (i) Subprojects classified as Category A per ADB's SPS 2009;

- (ii) Subprojects located in or with foreseeable adverse impacts on any legally protected area;⁴ or
- (iii) Subprojects that fall in part or in whole within an area supporting high biodiversity value.⁵

14. Subprojects should be screened and assessed based on procedures defined in the Project's environmental assessment and review framework (EARF).

ii. Social Safeguards, Involuntary Resettlement and Indigenous People or Customary Communities

15. Involuntary resettlement is considered when the affected persons have no right to refuse the land acquisition by the government that result in their displacement. This occurs when land is acquired through (i) expropriation by invoking the eminent domain power of the state or (ii) land is acquired through negotiated settlement when the pricing is negotiated in a process where expropriation will be the consequence of a failure in the negotiation.

16. Subprojects with significant impacts classified as Category A for involuntary resettlement will not be financed under the Project, with significant impact being defined as:

- (i) 200 or more persons being physically displaced from housing, and/or
- (ii) 200 or more persons losing 10% or more of their productive (income generating) assets.

17. Subprojects classified as Category A for indigenous people or customary communities (CC) as per ADB's SPS 2009 will not be eligible under the emergency assistance project. The subproject likely to have significant (category A) CC impacts when a subproject, among others:

- (i) Acquires a huge land area or forest that makes villagers unable to continue their existing traditional livelihood system;
- (ii) Changes the status of CC from self-subsistence farmers and forest products gatherers to factory workers;
- (iii) Results in physically displacing a sub-community far away from its wider community of origin;
- (iv) Causes contamination of the major communal water sources resulting in water borne diseases of the CC;
- (v) Restricts forest-dependent CC from accessing the forest area where for generations they used to hunt boars and collect rattan, wild fruits and other forest products; and
- (vi) Undermines the existing traditional irrigating system and the associated institutional arrangement for water distribution.

18. Subprojects should be screened and assessed based on procedures defined in the EARR's Resettlement and Customary Communities Development Framework (RCCDF) which combines the involuntary resettlement framework with the indigenous people's development framework.

⁴ Protected Areas as defined in Annex III of Minister of Environment Regulation No. 5/2012 on Types of Business Plans and/or Activities Requiring AMDAL.

⁵ Key Biodiversity Areas as defined in the World Database of Key Biodiversity Areas.

d. Criteria 4: Economic Viability and Financial Sustainability

19. The design of the subproject will ensure the adoption of the least-cost approach, both in respect of capital, as well as operation and maintenance (O&M) costs, keeping in view achievement of the EARR's objective(s) and without compromising quality and disaster resilience. Financial analysis to ensure subprojects viability and/or sustainability will be conducted. The subproject will need to demonstrate full recovery of recurring costs as a minimum qualification requirement.

20. For subprojects that are estimated to cost more than \$1 million, an Economic Internal Rate of Return (EIRR) should be calculated. The subproject will need to register an EIRR in excess of 9% with economic benefits quantified based on reliable data.

2. Prior Review and Approval by ADB

21. The first subproject to be carried out by each implementing agency will be subject to prior review and approval by ADB. Subsequent subprojects exceeding \$500,000 equivalent shall be sent to ADB for information only, while all subprojects exceeding \$5 million equivalent will require prior review and approval by ADB.⁶

22. Subproject safeguards categorizations will be sent to ADB. Subproject safeguard documents will need prior approval by ADB, including resettlement plans, resettlement and customary community development plan (RCCDP), due diligence report completed with corrective action plan (DDR – CAP), and initial environmental examinations (IEE) with environmental management plans (EMP), as needed. Safeguards documents will need to be consistent with the EARR's EARF and RCCDF, ADB's SPS 2009, and government laws and regulations.

3. Procedures

23. Each subproject will be prepared and processed in accordance with the following procedures:

- (i) Technical study, for all subprojects, will be conducted by the implementing agencies including its cost estimate. The implementing agencies will also prepare and categorize for (a) involuntary resettlement; (b) indigenous peoples; and (c) environment and send all categorization results to ADB.
- (ii) The implementing agencies will translate resettlement plans in the local language and disclose it to affected people, incorporating results of consultations. The implementing agencies will prepare the appraisal reports for all subprojects to be considered following the selection criteria, together with the required attachments, i.e., safeguards documents and submit these to ADB for approval. Safeguards documents will be disclosed on ADB's website and the website of the executing agencies.
- (iii) ADB will review the summary appraisal report together with the required attachments. If ADB finds that a proposed subproject does not satisfy the selection criteria and/or agreed procedures, ADB will advise the implementing agency either

⁶ ADB approval of a subproject does not guarantee automatic approval of the withdrawal application for this subproject to be submitted by the Borrower.

- (a) to modify the subproject proposal in a manner that will make it eligible for approval; or (b) that the subproject be rejected.
- (iv) The above procedure described in item (iii) will be applied only to those subprojects whose estimated cost exceeds \$5 million. Subprojects equal to or less than \$5 million will be reviewed by the implementing agencies and ADB will conduct post-facto review of such subprojects on a sample basis.

IV. COSTS AND FINANCING

24. Component 1 of the EARR is estimated to cost \$235.45 million, including contingencies. ADB will finance \$188 million and the Government will fund \$47.45 million. Cost estimates are presented in the table below.

A. Cost Estimates Preparation and Revisions

25. The cost estimate was prepared jointly by ADB and implementing agencies using 2019 prices. The cost estimate will be revised at the loan midterm review stage (planned in 2020).

B. Key Assumptions

26. The following key assumptions underpin the cost estimates and financing plan:
- (i) Exchange rate: Rp14,000= \$1.00 (1 February 2019)
 - (ii) Price contingencies based on expected cumulative inflation over the implementation period are as follows:

Table 5: Escalation Rates for Price Contingency Calculation

Item	2018	2019	2020	2021	2022	Average
Foreign rate of price inflation	1.50%	1.50%	1.50%	1.60%	1.60%	1.54%
Domestic rate of price inflation	3.40%	3.20%	3.30%	3.00%	3.00%	3.18%

Source: Asian Development Bank.

C. Breakdown of Cost Estimates

Table 6: Cost Estimates by Expenditure Category and by Output
(\$ million)

Item	Total Cost	Output 1	% of Cost Category	Output 2	% of Cost Category
A. Investment Costs					
1. Civil works	165.14	35.86	22%	129.28	78%
2. Mechanical and equipment	0.36	-	-	0.36	100%
3. Consultants	10.02	2.45	24%	7.58	76%
a. Design/Supervision	9.60	2.45	26%	7.15	74%
b. Capacity Development	0.43	-	-	0.43	100%
4. Tax	17.88	3.86	22%	14.02	78%
Subtotal (A)	193.40	42.17	22%	151.23	78%
B. Recurrent Costs					
1. Salaries	0.96	0.48	50%	0.48	50%
2. Accommodation	2.40	1.20	50%	1.20	50%
3. Equipment operation and maintenance	0.24	0.12	50%	0.12	50%
Subtotal (B)	3.60	1.80	50%	1.80	50%
Total - Base Cost	197.00	43.97	22%	153.03	78%
C. Contingencies					
1. Physical	10.87	2.43	22%	8.44	78%
2. Price	16.28	3.63	22%	12.65	78%
Subtotal (C)	27.15	6.06	22%	21.09	78%
Financial Charges During Implementation					
D.					
1. Interest During Construction	10.72	2.39	22%	8.33	78%
2. Commitment Charges	0.58	0.13	22%	0.45	78%
Subtotal (D)	11.30	2.52	22%	8.78	78%
Total Project Cost	235.45	52.55	22%	182.90	78%

Notes: 1. The government will finance tax through exemption and/or cash contribution.

2. Numbers may not tally due to rounding.

Source: ADB estimates.

Table 7: Cost Estimate by Financier
(\$ million)

Item	Base Cost	ADB	%	Govt	%
A. Investment Costs					
1. Civil works	165.14	165.14	100%	-	0%
2. Mechanical and equipment	0.36	0.36	100%	-	0%
3. Consultants	10.02	10.02	100%	-	0%
a. Design/Supervision	9.60	9.60	100%	-	0%
b. Capacity Development	0.43	0.43	100%	-	0%
4. Tax	17.88	0.00	0%	17.88	100%
Subtotal (A)	193.40	175.52	91%	17.88	9%
B. Recurrent Costs					
1. Salaries	0.96	-	-	0.96	100%
2. Accommodation	2.40	-	-	2.40	100%
3. Equipment operation and maintenance	0.24	-	-	0.24	100%
Subtotal (B)	3.60	-	-	3.60	100%
Total - Base Cost	197.00	175.52	89%	21.48	11%
C. Contingencies					
1. Physical	10.87	5.37	49%	5.50	51%
2. Price	16.28	7.10	44%	9.23	57%
Subtotal (C)	27.15	12.48	46%	14.67	54%
D. Financial Charges During Implementation					
1. Interest During Construction	10.72	-	-	10.72	100%
2. Commitment Charges	0.58	-	-	0.58	100%
Subtotal (D)	11.30	-	-	11.30	100%
Total Project Cost	235.45	188.00	80%	47.45	20%

Notes: 1. The government will finance tax through exemption and/or cash contribution.

2. Numbers may not tally due to rounding.

Source: ADB estimates.

Table 8: Detailed Cost Estimates by Year
(\$ million)

Item	Base Cost	2019	2020	2021	2022
A. Investment Costs					
1. Civil works	165.14	4.69	116.30	39.85	4.31
2. Mechanical and equipment	0.36	0.14	0.21	-	-
3. Consultants	10.02	3.93	2.84	2.95	0.31
a. Design/Supervision	9.60	3.86	2.67	2.80	0.26
b. Capacity Development	0.43	0.06	0.17	0.15	0.04
4. Tax	17.88	0.88	12.12	4.35	0.53
Subtotal (A)	193.40	9.63	131.48	47.15	5.14
B. Recurrent Costs					
1. Salaries	0.96	0.24	0.24	0.24	0.24
2. Accommodation	2.40	0.60	0.60	0.60	0.60
3. Equipment operation and maintenance	0.24	0.06	0.06	0.06	0.06
Subtotal (B)	3.60	0.90	0.90	0.90	0.90
Total - Base Cost	197.00	10.53	132.38	48.05	6.04
C. Contingencies					
1. Physical	10.87	0.25	4.67	5.46	0.50
2. Price	16.28	0.25	5.41	9.41	1.20
Subtotal (C)	27.15	0.50	10.08	14.87	1.70
D. Financial Charges During Implementation					
1. Interest During Construction	10.72	0.06	1.30	3.91	5.45
2. Commitment Charges	0.58	0.28	0.21	0.08	0.01
Subtotal (D)	11.30	0.34	1.51	3.99	5.46
Total Project Cost	235.45	11.37	143.97	66.91	13.20

Notes: 1. The government will finance tax through exemption and/or cash contribution.

2. Numbers may not tally due to rounding.

Source: ADB estimates.

D. Allocation and Withdrawal of Loan Proceeds**Table 9: Allocation and Withdrawal of Loan Proceeds**

Number	Item	Total Amount Allocated for ADB Financing	Basis for Withdrawal from the Loan Account
		\$ Category	
1	Project Cost (Component 1)	188,000,000	100 % of total expenditure claimed*
	TOTAL	188,000,000	

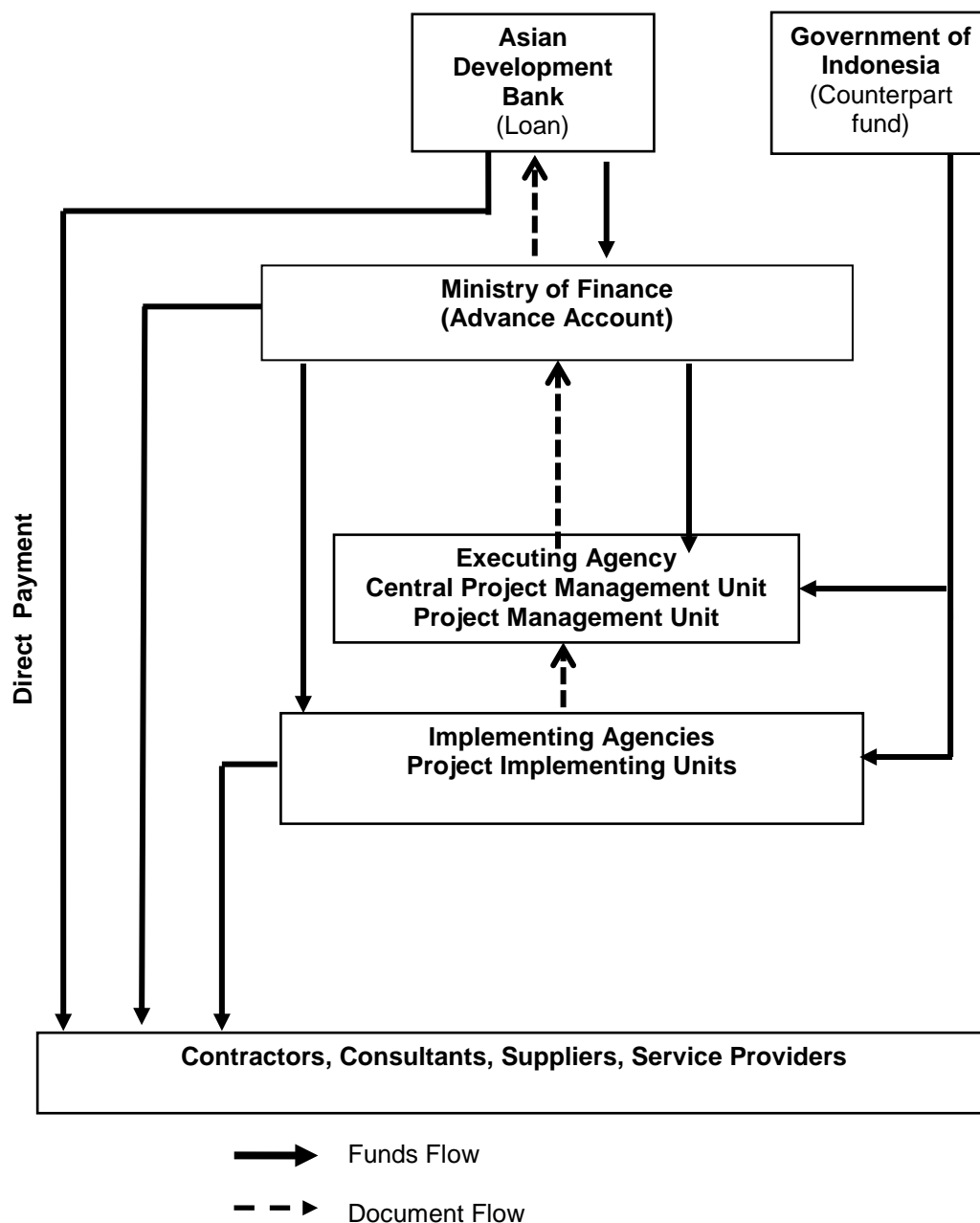
* Exclusive of taxes and duties imposed in the territory of the Borrower.

E. Contract and Disbursement S-Curve

27. The projections for contract award and disbursement are in Appendix 3.

F. Fund Flow Diagram

Figure 2: Funds Flow ⁷



⁷ Fund flow from the advance account to the EA/IA and/or contractors, consultants, suppliers and service providers will be based on submission of an Instruction Order and Payment Voucher and its supporting documents from the EA/IAs to Office of State Treasury, MOF. ADB provides initial deposit to the account. The EA/IA will submit withdrawal applications for replenishment to the account.

V. FINANCIAL MANAGEMENT

A. Financial Management Assessment

28. The Financial Management Assessment (FMA) was conducted in accordance with ADB's guidelines on Financial Management Technical Guidance Note (2015)⁸ and the Financial Due Diligence: A Methodology Note (2009).⁹ The FMA considered the capacity of the executing agency and the implementing agencies, including funds-flow arrangements, staffing, accounting and financial reporting systems, financial information systems, and internal and external auditing arrangements.

29. The Public Financial Management assessment indicates that the government's prevailing financial, accounting, auditing rules, and systems meet generally accepted international accounting and auditing standards. The 2017 Public Expenditure and Financial Accountability Assessment for Indonesia showed that 17 of the 31 indicators scored A or B, which are both considered above the basic alignment with international good practice. Indicators with particularly good assessment results included transparency of public finance, and accounting and reporting—all key for the successful implementation of the Project.¹⁰ The assessment also identified some areas for improvement, including the strategic allocation of resources and the efficiency of public spending by linking performance information more effectively to planning and budgeting. The established legal and regulatory framework for public financial management was strengthened in 2017 through the government regulations mandating coordination between the National Planning Agency and the Ministry of Finance (MOF) to improve the policy orientation of budgeting.

30. The FMA is updated for MPWH and respective implementing agencies part of MPWH, based on previous ADB-financed projects.¹¹ MPWH's financial management is governed by the government's prevailing financial, accounting, auditing rules and systems, which are assessed as meeting generally accepted international accounting and auditing standards. The overall financial systems and policies of the executing agency is acceptable. The executing agency and implementing agencies have the capacity to implement the project, since they have extensive experience in implementing ADB-funded projects. Furthermore, as most ADB project loans in Indonesia have used advance account procedures, MOF as the borrower has extensive experience and capacity to establish and administer advance account.

31. The pre-mitigated financial management risk level for the project is moderate. Focus on quick implementation and limited capacity at subnational level contribute to the risk rating. Overall, emergency projects require FM Specialist support and oversight during implementation to address risks and mitigation activities identified in this FMA.

32. Major fiduciary risks identified are considered manageable due to the following mitigation measures: (i) providing financial management training to project financial management staff and

⁸ ADB. 2015. *Financial Management Technical Guidance Note*. Manila

⁹ ADB. 2009. *Financial Due Diligence: A Methodology Note*. Manila

¹⁰ World Bank. 2018. *Indonesia Public Expenditure and Financial Accountability (PEFA) Assessment Report 2017*. Jakarta.

¹¹ ADB. Republic of Indonesia: Rural Infrastructure Support to the PNPM Mandiri Project II (Loan 2575-INO); ADB. Republic of Indonesia: Urban Sanitation and Rural Infrastructure Support to PNPM (Loan 2768-INO); ADB. Republic of Indonesia: Flood Management in Selected River Basins Sector Phase 2 (Loan 3440-INO); ADB. Republic of Indonesia: Integrated Participatory Development and Management of Irrigation Program (Loan 3529-INO); ADB. Republic of Indonesia: Accelerating Infrastructure Delivery through Better Engineering Services Project Loan (Loan 3455-INO).

recruitment of FM consultancy, (ii) recruitment of a project management consultants (PMC) to support the DGs in all fiduciary aspects of the EARR implementation; (iii) ensuring PIU's responsibility for aligning the project preparation schedules with the budgeting process.

33. Appropriate actions plan was prepared to mitigate these risks. This will be closely monitored during the Project implementation.

Table 10: Financial Management, Internal Control, Risk Assessment and Mitigating Action Plan

Risk Description	Risk Rating	Mitigation Measures or Risk Management Plan	Responsibility	Timing
A. Country / Sector Risk				
Lack of capacity at subnational level	S	a. Establish PIU to coordinate implementation at local/provincial level b. Development partners' continuous support to strengthen the public financial management systems in Indonesia through policy-based, projects, and technical assistance activities.	a. EA, IAs	a. prior to project implementation
Some government procedures for accounting and financial reporting have weaknesses, i.e., different system and regulation between central government (line ministry) and local government.	M	a. Establish coordination between central level (line ministry) and agencies at local levels of government. b. Build capacity and strengthen monitoring in financial management and reporting.	a. EA, IAs	a. 4Q 2019
Overall Inherent Risk	M			
B. Project Risk				
Reporting and Monitoring Findings raised in the auditor's reports not timely addressed	S	EA to ensure all findings raised in External Auditors' reports are properly addressed and closed prior to the subsequent financial year end.	MPWH	throughout project implementation
Funds Flow Late availability of funds during Project implementation	S	Fund flow procedures and disbursement arrangements to be discussed and agreed with Government and EA to avoid any delays in replenishment of advance accounts and disbursements	MPWH and MOF	during loan negotiations
Human Resource and Staffing Existing EA staff will be assigned to the Project implementation. There is no enough information on availability of staff and their experience in projects FM	M	a. EA to properly assess FM resource requirements for the Project and ensure PIUs are staffed adequately b. Trainings and capacity building activities to be delivered to staff involved into Project implementation	EA, IAs, and ADB	a. prior to loan effectiveness b. throughout project implementation

Risk Description	Risk Rating	Mitigation Measures or Risk Management Plan	Responsibility	Timing
Human Resource and Staffing Unclear job descriptions or delineated roles of the project staff to affect accountability	M	EA and IAs to establish clear organizational structure of the CPMU, PMU and PIUs	EA, IAs	prior to loan effectiveness
Implementing Entity Inefficient coordination and information flow between the EAs, IAs and PIUs.	M	a. Establishment of PMU to ensure regular coordination, communication and resolution of issues. b. Development of clear working arrangements and protocols.	Project Steering Committee, MPWH	prior to loan effectiveness
Internal Control The policies and procedures of EA do not clearly define conflict of interest and related party transactions and safeguards to protect the organization from fraud and corruptions.	M	EA to establish relevant procedures and policies.	MPWH	2019-2020
External Audit Limited time provided to auditors compared to the much longer period required to carry out an extensive audit of public works	M	EA to ensure timely submission of project financial statements for audit	MPWH	throughout project implementation
Internal Audit	L			
Information Systems	L			
Overall Project Risk	M			
Overall (Combined) Risk	M			

ADB = Asian Development Bank, CPMU = central project management unit, EA = executing agency, H = High, IA = implementing agency, L = Low or Negligible, M = Moderate, MOF = Ministry of Finance, MPWH = Ministry of Public Works and Housing, PIU = project implementation unit, PMU = project management unit, S = Substantive.

B. Disbursement

1. Disbursement Arrangements for ADB Funds

34. The loan proceeds will be disbursed in accordance with ADB's *Loan Disbursement Handbook* (2017, as amended from time to time),¹² and detailed arrangements agreed upon between the government and ADB. Online training for project staff on disbursement policies and procedures is available.¹³ Project staff are encouraged to avail of this training to help ensure efficient disbursement and fiduciary control.

35. **Advance account procedure.** The government (MOF) will establish an advance account for MPWH at the central bank (Bank Indonesia) to facilitate the timely release of loan funds. The

¹² The handbook is available electronically from the ADB website (<http://www.adb.org/documents/loan-disbursement-handbook>).

¹³ Disbursement eLearning. http://wpqr4.adb.org/disbursement_elearning

currency of the advance account will be US Dollar. The advance account will be administered by the MOF. The advance accounts will be established, managed, replenished, and liquidated in accordance with ADB's *Loan Disbursement Handbook* (2017, as amended from time to time). The advance account is to be used exclusively for ADB's share of eligible expenditures. The MOF, who administers the advance account, is accountable and responsible for proper use of advances to the advance account.

36. The total outstanding advance to the advance account should not exceed the estimate of ADB's share of expenditures to be paid through the advance account for the forthcoming 6 months. MOF will request for initial and additional advances to the advance account based on an Estimate of Expenditure Sheet¹⁴ setting out the estimated expenditures to be financed through the accounts for the forthcoming 6 months. Supporting documents should be submitted to ADB or retained by the Borrower (MOF, the executing agency, and the implementing agencies) in accordance with ADB's *Loan Disbursement Handbook* (2017, as amended from time to time) when liquidating or replenishing the advance account.

37. **Statement of expenditure procedure.**¹⁵ The statement of expenditure (SOE) procedure may be used for reimbursement and liquidation of the advance account. Supporting documents and records for the the expenditures claimed under the SOE rds should be maintained and made readily available for review by ADB's disbursement and review mission or upon ADB's request for submission of supporting documents on a sampling basis, and for independent audit.

38. Before the submission of the first withdrawal application (WA), the borrower should submit to ADB, sufficient evidence of the authority of the persons who will sign the WAs on behalf of the government, together with the authenticated specimen signatures of each authorized person. The minimum value per WA is stipulated in the *Loan Disbursement Handbook* (2017, as amended from time to time). Individual payments below such amount should be paid (i) by the executing agency/implementing agencies and subsequently claimed to ADB through reimbursement, or (ii) through the advance fund procedure, unless otherwise accepted by ADB. The borrower should ensure sufficient category and contract balances before requesting disbursements. Use of ADB's Client Portal Disbursement (CPD).¹⁶ System is mandatory for submission of WAs to ADB. Sample forms for withdrawal applications of loan proceeds can be downloaded from the ADB website.

39. Sufficient supporting documentation, as defined in ADB's *Loan Disbursement Handbook* (2017, as amended from time to time) will be kept at each level of the EARR implementation to substantiate all expenditures incurred from the loan proceeds. Relevant project staff will be trained in ADB's disbursement procedures.

2. Disbursement Arrangements for Counterpart Fund

40. The implementing agencies are responsible for preparing and requesting budgetary allocations for counterpart funds to be included in the DIPA. Disbursement procedures for the counterpart funds will follow the government regulations. Local taxes and duties under the EARR will be financed by the government and budgeted in the counterpart funds.

¹⁴ Estimate of Expenditure sheet is available in Appendix 8A of ADB's *Loan Disbursement Handbook* (2017, as amended from time to time),

¹⁵ SOE forms are available in Appendix 7B and 7D of ADB's *Loan Disbursement Handbook* (2017, as amended from time to time).

¹⁶ The CPD facilitates online submission of WA to ADB, resulting in faster disbursement. The forms to be completed by the Borrower are available online at <https://www.adb.org/documents/client-portal-disbursements-guide>.

C. Accounting

41. Each implementing agency will maintain, or cause to be maintained, separate books and records by funding source for all expenditures incurred by the EARR. The executing agency will prepare consolidated project financial statements in accordance with the government's accounting laws and regulations which are consistent with international accounting principles and practices.

D. Auditing and Public Disclosure

42. The executing agency will cause the detailed consolidated project financial statements to be audited in accordance with International Standards on Auditing and with the Government's audit regulations, by an independent auditor acceptable to ADB. In addition, the MOF will cause the EARR advance account opened in Bank Indonesia to be audited in accordance with International Standards on Auditing and with the Government's audit regulations, by an independent auditor acceptable to ADB.

43. Such audited consolidated project financial statements and audited EARR advance account will be submitted in the English language to ADB within six months of the end of the fiscal year by executing agency.

44. The audit report for the EARR financial statements and special bank account will include auditor's opinions, which cover (i) whether the EARR financial statements present an accurate and fair view or are presented fairly, in all material respects, in accordance with the applicable financial reporting standards; (ii) whether the proceeds of the EARR were used only for the purpose(s) of the EARR; and (iii) whether the borrower or the executing agency was in compliance with the financial covenants contained in the legal agreements (where applicable). In addition, the audit report for the EARR financial statements will include a management letter.

45. Compliance with financial reporting and auditing requirements will be monitored by review missions and during normal program supervision, and followed up regularly with all concerned, including the external auditor.

46. The government, the executing agency and the implementing agencies have been made aware of ADB's approach to delayed submission, and the requirements for satisfactory and acceptable quality of the audited project financial statements.¹⁷ ADB reserves the right to require a change in the auditor (in a manner consistent with the constitution of the borrower), or for additional support to be provided to the auditor, if the audits required are not conducted in a manner satisfactory to ADB, or if the audits are substantially delayed. ADB reserves the right to

¹⁷ ADB's approach and procedures regarding delayed submission of audited project financial statements:

- (i) When audited EARR financial statements are not received by the due date, ADB will write to the EA advising that (a) the audit documents are overdue; and (b) if they are not received within the next 6 months, requests for new contract awards and disbursement such as new replenishment of advance accounts, processing of new reimbursement, and issuance of new commitment letters will not be processed.
- (ii) When audited EARR financial statements are not received within 6 months after the due date, ADB will withhold processing of requests for new contract awards and disbursement such as new replenishment of advance accounts, processing of new reimbursement, and issuance of new commitment letters. ADB will (a) inform the EA of ADB's actions; and (b) advise that the project may be suspended if the audit documents are not received within the next 6 months.
- (iii) When audited EARR financial statements are not received within 12 months after the due date, ADB may suspend the EARR.

verify the project's financial accounts to confirm that the share of ADB's financing is used in accordance with ADB's policies and procedures.

47. Public disclosure of the audited financial reports, including the auditor's opinion, will be guided by ADB's Public Communications Policy 2011.¹⁸ After the review, ADB will disclose the audited EARR financial statements and the opinion of the auditors on the EARR financial statements no later than 14 days of ADB's confirmation of their acceptability by posting them on ADB's website. The management letter, additional auditor's opinions, and audited entity financial statements will not be disclosed.¹⁹

VI. PROCUREMENT AND CONSULTING SERVICES

A. Advance Contracting and Retroactive Financing

48. All advance contracting and retroactive financing will be undertaken in conformity with *ADB Procurement Policy* (2017, as amended from time to time) and the *Procurement Regulations for ADB Borrowers* (2017, as amended from time to time). The issuance of invitations to bid under advance contracting and retroactive financing will be subject to ADB approval. The borrower, the executing agency, and the implementing agencies have been advised that approval of advance contracting and retroactive financing does not commit ADB to finance the EARR.

49. **Advance Contracting.** Advance contracting under the EARR will be applicable for recruitment of Engineering and Project Management Consultants and procurement of civil works including advertisement, receiving bids, and evaluation of bids, prior to loan effectiveness. Detailed engineering designs and bidding documents for selected subprojects may be prepared under the ongoing Loan 3455 Accelerating Infrastructure Delivery through Better Engineering Services Project and Loan 3440 Flood Management in Selected River Basin Project. Individual consultant selections to support the project at various levels may follow advance contracting actions.

50. **Retroactive financing.** Retroactive financing will be allowed for up to 30% of the loan amount for eligible expenditures incurred under the EARR, provided that such expenditures have been incurred not earlier than 28 September 2018.²⁰

B. Procurement of Goods, Works, and Consulting Services

51. All procurement of goods and works and consulting services will be undertaken in accordance with *ADB Procurement Policy* (2017, as amended from time to time) and the *Procurement Regulations for ADB Borrowers* (2017, as amended from time to time).

52. Most civil works and goods contracts will be procured through open competitive bidding (OCB) and the national advertisement method. To ensure efficiency, special procedures for

¹⁸ Public Communications Policy: <http://www.adb.org/documents/pcp-2011?ref=site/disclosure/publications>

¹⁹ This type of information would generally fall under public communications policy exceptions to disclosure. ADB. 2011. Public Communications Policy. Paragraph 97(iv) and/or 97(v).

²⁰ If the borrower proceeds with the initial steps of procurement before signing the financing agreement, the procurement procedures shall be acceptable to ADB and in accordance with the Procurement Plan for any contracts subsequently awarded to be eligible for ADB financing. Furthermore, if the contract is signed, reimbursement by ADB of any expenses incurred by the borrower under the contract prior to effectiveness of the financing agreement is referred to as retroactive financing.

emergency lending will be used as guided by the *Guidance Note on Fragile, Conflict-affected, and Emergency Situations* (2018, as amended from time to time), including (i) wider use of post qualification, (ii) reducing the bidding period to 15 working days for international competition and 7 working days for national competition when appropriate, (iii) using single-stage one-envelope bidding procedures, (iv) developing a time-bound action plan to award contracts, including a contract management plan. The national electronic public procurement system (SPSE) may be used for OCB national advertisement provided the system accommodates the agreed Standard Bidding Document (SBD) and uses the central SPSE's MPWH that has been enhanced to comply with the ADB requirements.

53. Procurement risk assessments of the ongoing projects financed by ADB,²¹ found the overall procurement risk of implementing agencies of MPWH as medium. Based on the assessment, ADB's review type have been established. In case of works and goods contract, the first contract of similar nature for each implementing agency shall be prior reviewed by ADB and the remaining may be post reviewed by ADB. A sampling approach will be applied for the contract packages less than \$20 million while full post review will be used for the package between \$20 million and \$40 million. All contract packages above \$40 million will be prior reviewed.

54. Some civil works and goods contracts, and consulting services may be procured using direct contracting, where appropriate, following procedures acceptable to ADB. Small and simple works and goods up to \$100,000 may be procured using international and/or national request for quotations. ADB encourages community participation in the procurement of small works of a simple nature.

55. To support the EARR implementation, Engineering and Project Management Consultant firms will be recruited through OCB procedures using a quality- and cost- based selection. Individual consultants will be recruited using the individual selection method with international and/or national advertisements, based on the EARR's requirements. Consultants who are already engaged in ADB-financed projects and provide similar services as those required for the Project may be recruited directly under the project, subject to satisfactory performance.²² The Consultants will support the implementing agencies in undertaking procurement in line with procurement arrangements agreed for the EARR.

56. Before the start of any procurement, ADB and the government will review the public procurement laws of the government to ensure consistency with ADB's Procurement Policy and Procurement Regulations for ADB Borrowers (2017, both as amended from time to time).

C. Procurement Plan

57. The initial procurement plan is in Appendix 4. The information in the procurement plan is indicative and will be further detailed during the EARR start up period through a discussion between ADB and MPWH.

D. Consultant's Terms of Reference

58. The terms of reference for engineering and project management consultants are in Appendix 5.

²¹ Accelerating Infrastructure Delivery through Better Engineering Services Project. Procurement Risk Assessment is available at <https://www.adb.org/sites/default/files/linked-documents/49141-001-sd-02.pdf>

²² ADB. 2018. *Guidance Note on Procurement: Fragile, Conflict-Affected, and Emergency Situations*. Manila (para. 3.27).

VII. SAFEGUARDS

59. **Environment.** The EARR is classified as category B for environmental safeguards per ADB's Safeguards Policy Statement (SPS), 2009. Subprojects classifying as category A,²³ and subprojects with activities described in ADB's Prohibited Investment Activities List shall not be eligible for financing under the EARR. Subprojects will not be undertaken in protected areas including those either legally protected or officially proposed for protection.²⁴

60. The exclusion of subprojects classifying as category A from the EARR scope will be ensured through screening of all subprojects in accordance with the EARR's environmental assessment and review framework (EARF)²⁵ that was prepared for the EARR and endorsed by the executing agency. Each subproject will be classified individually using the screening procedure and the rapid environmental assessment (REA) screening checklists defined in the EARF. Only subprojects classifying as category B or C are eligible.

61. For subprojects classifying as category B for environment, initial environmental examinations (IEE) and environmental management plans (EMP) will be prepared consistent with the EARF. These will be submitted to and cleared by ADB and disclosed on the executing agency's website and to potentially affected communities. The IEEs and EMPs will be incorporated into bidding documents and contract documents to be implemented by contractors.

62. Indonesia environmental assessment procedure will also be followed, and consultation with district/provincial DLH will be undertaken prior to commencing the activity. All subproject proposals will undergo screening according to relevant government laws and regulations to classify whether a project proposal would need AMDAL, or UKL/UPL (equal to category B), or SPPL (equal to category C). All subprojects will undertake environmental assessment and shall obtain environmental clearance before proceeding to implementation. In addition, all applicable government environmental permits/ approvals/ concurrences and ADB approval must be obtained prior to any contract award for civil works.

63. A grievance redress mechanism (GRM) should be established during construction of the project to address unforeseen problems and issues that may arise due to construction and operational impacts. The executing agencies will establish a mechanism to receive and facilitate resolution of affected peoples' concerns, complaints, and grievances about the EARR's environmental safeguard performance.

64. **Involuntary Resettlement.** The project is classified as category B for involuntary resettlement (IR) in accordance with ADB's SPS 2009 because the EARR is likely to have minor impact on IR. Subproject triggering category A for IR will be excluded. implementing agencies will screen potential subprojects early to identify past, present, and future land acquisition and resettlement impacts and will adopt measures to avoid or minimize these impacts. Subproject with category B and C will be eligible.

²³ Subprojects likely to have significant impacts that are irreversible, diverse, or unprecedented as per ADB's Safeguard Policy Statement (2009)

²⁴ Including (i) Protected Areas as defined in Annex III of Minister of Environment Regulation No. 5/2012 on Types of Business Plans and/or Activities Requiring AMDAL; and (ii) Key Biodiversity Areas as defined in the World Database of Key Biodiversity Areas managed by BirdLife International on behalf of the KBA Partnership. World Database of Key Biodiversity Areas.

²⁵ Environmental assessment and review framework (EARF). Available from list of linked documents.

65. Meaningful consultations will be conducted with affected persons and concerned parties to ensure their participation from planning, implementation, and monitoring. Special attention will be provided to the needs of vulnerable groups (especially those below the poverty line, the landless, the elderly, women and children, those without legal title to land, and indigenous peoples). Establish a grievance redress mechanism to receive and facilitate resolution of the affected persons' concerns.

66. Negotiated land acquisition and voluntary donation will follow procedure in a transparent, consistent, and equitable manner and be confirmed through written record and verified by an independent third party. Ensuring that voluntary donations do not severely affect the living standards of the affected persons.

67. **Indigenous Peoples.** The EARR is classified as category B for Indigenous People because the project is likely to have limited impact (positive and negative) on Indigenous People or Customary Communities (IP/CC). The implementing agencies shall screen each subproject and ensure that subprojects triggering A for IP as per ADB SPS 2009 will be excluded. The magnitude of impact is assessed through the following aspects; (i) customary rights of use and access to land and natural resources; (ii) socioeconomic status; (iii) cultural and communal integrity; (iv) health, education, livelihood, and social security status; and (v) recognition of indigenous people.

68. Meaningful consultations with customary communities (including women and youth) at each stage of the project will be conducted to identify customary communities' perspectives, issues and concerns. Culturally appropriate and gender inclusive grievance mechanism to receive and facilitate resolution of the Indigenous Peoples' concerns will be set up.

69. **Social Safeguards Plans.** As most of project activities cover infrastructure in various sectors with almost similar impacts, an RCCDF has been prepared for the project in line with (a) applicable Indonesian laws and regulations related to land acquisition and customary communities; (b) ADB Safeguards Policy of 2009 specifically on IR and IP Safeguards. Impact assessments and safeguard plans are prepared during subproject preparation in conformity with the RCCDF.

70. The RCCDF is to guide subproject selection, screening and categorization, social assessment, and implementation of social safeguard plan during project implementation. Screening guidance is provided to establish the type of social safeguards document required for future sub projects. There are three possible documents that may be required during project implementation: resettlement plan, RCCDP, and Due Diligence Report – Corrective Action Plan (DDR-CAP), if any. The implementing agencies shall prepare a safeguard planning document for the subproject if land acquisition and involuntary resettlement and/or indigenous people safeguard is triggered. These documents will be disclosed to the affected persons and posted on ADB and project websites.

71. **Institutional arrangements for safeguards.** The executing agency will be responsible for overall project implementation including safeguards. The executing agency will establish a CPMU which will be supported by the Project Management Consultant (PMC). The PMC will have environment and social safeguards specialists to support the PMU to prepare consolidated environmental and social safeguards monitoring reports to be submitted to ADB for review and disclosure on its website, provide guidance to safeguards specialist consultants at PIU, and capacity building on safeguards at regions.

72. The implementing agencies will form PIUs which will have Safeguards Focal Persons to supervise and coordinate environmental and social safeguards planning and implementation. The PIUs will be assisted by engineering and management consultants (EMC) for DGHS and DGWR. The EMC will include environment specialists and social safeguards specialists engaged during Project implementation to assist the PIUs in preparing, implementing, and monitoring the safeguards. The PIUs will ensure that the EARF and RCCDF are followed during subproject preparation and implementation. PIUs will undertake screening and classification of subprojects consistent with the EARF and RCCDF for submission to the executing agency and implementing agencies, relevant local agencies,²⁶ and ADB. The PIUs will prepare the respective safeguards documents (IEE, resettlement plan, RCCDP, DDR-CAP) for proposed subprojects. Safeguards documents will be reviewed and approved by implementing agencies and ADB. PIUs will be tasked with the day-to-day implementation and monitoring of safeguards plans. PIUs will also obtain all clearances and fulfill government requirements and safeguard permits. PIUs will be responsible for data required for safeguards plan preparation and monitoring and progress reports, and coordination with relevant agencies including provincial or district environmental agency (*Dinas Lingkungan Hidup*, DLH), land office, regional development acceleration team to consult and/or obtain endorsement if necessary. Institutional roles and responsibilities are detailed in the EARF and RCCDF.

VIII. GENDER AND SOCIAL DIMENSIONS

73. **Gender category at entry.** The EARR's gender classification is "Effective Gender Mainstreaming" (EGM) which means that at least 50% of the outputs integrate gender targets and design features. It is expected that women, children, people living with disabilities and the elderly can participate and fully benefit from the disaster rehabilitation and reconstruction interventions supported by the EARR.

74. **Key actions.** The EARR's gender action plan (GAP) includes the following actions and targets: (i) reconstruction/rehabilitation of infrastructure (education institutions, irrigation, water supply) integrate gender responsive and inclusive design features and/or safety measures for women, children, the elderly and people with disability; (ii) safety standards for disaster resilient infrastructure and/or disaster preparedness and response plans developed in consultation with local stakeholders including women (45% women's participation); and (iii) labor opportunities, and ensuring equal pay for work of equal value.

75. **GAP implementation arrangements.** MPWH will be responsible for ensuring the implementation of the GAP, more particularly the gender actions and targets related to the relevant components of their respective sectors/sub-sectors. The measures included in the Project's GAP are in line with Head of National Disaster Agency Regulation No. 13 Year 2014 on Gender Mainstreaming in Disaster Management that mandates gender responsive planning and budgeting during rehabilitation and reconstruction phase.

- (i) two national Gender Consultants will be hired on an intermittent basis in the executing agency and will be responsible to support the executing agency and implementing agencies in implementing, monitoring and reporting on the GAP for the concerned sectors/sub-sectors and ensuring that GAP implementation is on-track. The Gender Consultant will also be responsible for delivering gender awareness training.

²⁶ Environment categorization of subprojects per Minister of Environment Regulation No. 5/2012 shall be confirmed by the relevant provincial or district environmental agency (*Dinas Lingkungan Hidup*, DLH).

- (ii) the GAP will be implemented by the implementing agencies with assistance of consultant teams and gender focal points. Gender focal points (from existing government Gender and Development Focal Point System) will be appointed/designated for the Project to manage day-to-day GAP activities and monitoring in coordination with the executing agency and implementing agencies; confirming sex-disaggregated baseline data at Project inception; maintain sex-disaggregated data during project implementation; and be responsible for reporting on the GAP implementation progress.
- (iii) project monitoring and evaluation systems will track sex-disaggregated data and quantitative and qualitative information on GAP implementation. Status and monitoring reports will be included in the Project's quarterly progress reports reviewed by ADB and EARR steering committee.

76. The gender staff/consultant based in the ADB's Indonesia Resident Mission will participate in the Project review missions when deemed necessary. ADB will conduct in-depth GAP reviews as part of the Project's mid-term and final evaluations.

Table 11: Gender Action Plan

Outputs	GAP Actions & Targets
Output 1. Human settlement infrastructure constructed, rehabilitated, and upgraded	Education Component
	1.1. At least one educational institution rehabilitated with disaster resilience, gender responsive and inclusive features ²⁷ (concrete examples of such designs will need to be reported).
	1.2. Safety instructions and standards established (e.g. levelling, fence, lights in proper places, stairs, ramps etc.) in education institutions, taking into account the needs of women, men, including people with disabilities (PWDs).
	1.3. Disaster preparedness and response plan developed with prior consultation and integrating features that address the different needs and promote active involvement of both women and men, including PWDs.
	Water Supply Component
	1.4. At least 35,000 household service connections (HSC) (benefitting at least 66,000 women and girls) for water supply established with prior consultation with women (45% participation women in consultations).
	1.5. Conduct gender sensitive awareness raising programs on water use efficiency, water quality and hygiene education including menstrual hygiene (Target: 45% women and girls).
Output 2. Water resource infrastructure constructed, rehabilitated, and upgraded	2.1. Gumbasa irrigation scheme reconstructed with disaster resilient standards and safety measures for women, children, the elderly and PWDs (e.g. irrigation fences installed in strategic points to ensure safety), to serve an area of 6,968 ha. (Baseline: 0).
	2.2. 42 km of Palu-Sigi-Donggala (PASIGALA) raw water transmission system upgraded benefitting about 25,480 women and girls.
	2.3. Compile gender sensitive social, economic, technical and institutional profile (PSETK) in irrigation area.
	2.4. Ensure women are made well aware of and have access to possible paid jobs in O&M.
	2.5. Provide skills training in O&M of water infrastructure to women who are interested.
Common GAP Actions Across Outputs 1 and 2:	
<ol style="list-style-type: none"> 1. Ensure that land acquisition and compensation process is transparent, and that compensation is equal for male and female APs, and where applicable compensation and allowances are provided in the name of both spouses and/or female-headed households/widows. 2. Contractors will be encouraged to employ local workers and at least 10% women in skilled and unskilled positions in civil works (this will need to be reported by skilled/unskilled positions). 3. Ensure equal pay for work of equal value for women and men in all construction and maintenance work. 4. Ensure that basic facilities (separate toilets and clean water) are provided for female as well as male construction workers at construction sites. 5. Ensure that contractors have mechanisms in place to raise awareness on zero tolerance to sexual harassment and gender-based violence among workers and against women/girls and men/boys in the communities and respond adequately to any such incidents. 	
Project Management:	
<ol style="list-style-type: none"> 1. Recruitment of two national Gender Specialist for total of 30 pm intermittent to support GAP implementation, monitoring and reporting for the relevant components/sub-sectors under each Directorate. 	

²⁷ Gender responsive designs take into consideration the different needs of women and men such as the need for separate female and male toilets (with adequate female:male toilet ratio), with doors and features that ensure security and privacy; lactation room; adequate lighting and visibility inside and around the facilities. Inclusive designs refer to buildings that are accessible by PWDs, e.g. accessible routes, curb ramp, ramp/lift/stair lift, accessible toilets, dedicated parking, and signs. Also refer to [Regulation of Minister of Public Works and Housing No. 45/PRT/M/2007 on State Buildings](#), [Regulation of Minister of Public Works and Housing No. 14/PRT/M/2017 on Ease-of-Access Requirements to Building](#), and [Law No. 8/2016 on Persons with Disabilities](#).

2. Formal appointment/designation of gender focal points (from existing government gender and development Focal Point System [GAD-FPS]): 1 gender focal each in Directorate General of Human Settlements, and Directorate General of Water Resources;
3. Orientation and capacity building on GAP implementation and related requirements is conducted for the EA, IAs/IC, contractors and other key implementing partners.
4. Collection of sex-disaggregated and gender-related information relevant to the design and monitoring framework GAP is integrated in the overall project performance and monitoring system.
5. Project annual, mid-term and completion reports include details on progress against GAP indicators and results (good practices, lessons learnt, etc.).
6. GAP implementation is integrated in the Annual Gender and Development (GAD) Plans and Budgets and Annual GAD Reports of MPWH and other government partners, where applicable.
7. Representatives of the GAD Focal Point System (GAD-FPS) of each government agency-member of the steering committee shall form the GAD-FPS of the committee, tasked to oversee GAP implementation.

IX. PERFORMANCE MONITORING, EVALUATION, REPORTING, AND COMMUNICATION

A. Project Design and Monitoring Framework

Table 12: Design and Monitoring Framework

Impact the EARR is Aligned with			
Socioeconomic impact of disasters reduced (National Medium-Term Development Plan [RPJMN] 2016–2019) ^a			
Results Chain	Performance Indicators with Targets and Baselines	Data Sources and Reporting Mechanisms	Risks
Outcome Access for affected people, including women and children, to resilient and inclusive infrastructure restored	By end of 2023: At least 200,000 individuals have access to infrastructure that is resilient, inclusive, and operational (2019 baseline: 0)	Periodic progress reports prepared by the executing agencies	Disaster events occur during implementation period
Outputs 1. Human settlement infrastructure constructed, rehabilitated, and upgraded 2. Water resource infrastructure constructed, rehabilitated, and upgraded	By 2023: 1a. At least one educational institution reconstructed to disaster-resilient standards and with gender-responsive ^b and inclusive ^c features (2019 baseline: 0) 1b. At least 35,000 household service connections (benefiting at least 66,000 women and girls) ^d for potable water supply established with prior consultation (45% participation of women in consultations) (2019 baseline: 10,000 household service connections) 2a. Gumbasa irrigation system reconstructed to disaster-resilient standards and with safety measures ^e to serve an area of 6,968 hectares (2019 baseline: 0) 2b. 42 kilometers of Palu–Sigi–Donggala raw water transmission system reconstructed and upgraded (2019 baseline: 0)	1a-b. Periodic progress report prepared by Ministry of Public Works and Housing and local governments 2a-c. Periodic progress report prepared by Ministry of Public Works and Housing and local governments.	Delay in implementation due to labor and material shortages

	2c. Seven kilometers of coastal protection constructed (2019 baseline: 0)		
Key Activity with Milestone A. Human settlement infrastructure constructed, rehabilitated and upgraded 1.1 Recruit consultants under the Accelerating Infrastructure Delivery through Better Engineering Services Project ^f (by Q4 2019) 1.2 Identify and appraise subprojects, as required (by Q2 2020) 1.3 Prepare engineering designs and bidding documents and undertake social and environmental safeguards activities (by Q3 2020) 1.4 Procure works (by Q1 2021) 1.5 Construct assets (by Q4 2022) 1.6 Assets operational (by Q1 2023) B. Water resources infrastructure rehabilitated and upgraded 2.1 Recruit consultants under the Accelerating Infrastructure Delivery through Better Engineering Services Project ^f (by Q4 2019) 2.2 Identify and appraise subprojects, as required (by Q1 2020) 2.3 Prepare engineering designs and bidding documents and undertake social and environmental safeguards activities (by Q1 2021) 2.4 Procure works (by Q2 2021) 2.5 Construct assets (by Q3 2022) 2.6 Assets operational (by Q3 2022)			
Inputs ADB: \$188 million (loan) Government: \$47.45 million			
Assumptions for Partner Financing Not Applicable			

ha = hectares, RPJMN = National Medium-Term Development Plan.

^a Government of Indonesia. *National Medium-Term Development Plan 2016–2019*. Jakarta.

^b The term “gender-responsive features” refers to the different needs of women and men. In the context of infrastructure, this may include lactation rooms, separate toilets for men and women (the ratio depending on the expected number of respective users), and doors and features that ensure privacy.

^c The term “inclusive features” refers to features in a building that improve the accessibility of people with disabilities, e.g., accessible routes, ramp, accessible toilets, dedicated parking, and signage. Also refer to [Regulation of Minister of Public Works and Housing No. 45/PRT/M/2007 on State Buildings](#), [Regulation of Minister of Public Works and Housing No. 14/PRT/M/2017 on Ease-of-Access Requirements to Building](#), and [Law No. 8/2016 on Persons with Disabilities](#).

^d The population in Palu, Sigi, and Donggala is about 51% male and 49% female, and the average household size for Indonesia is 3.9 (*Badan Pusat Statistik*, Central Statistics Agency 2017).

^e For example, irrigation fences installed in strategic points to ensure safety.

^f ADB. 2016. *Report and Recommendation of the President to the Board of Directors: Proposed Technical Assistance Loan to the Republic of Indonesia for the Accelerating Infrastructure Delivery through Better Engineering Services Project*. Manila. (Loan 3455-INO).

Source: Asian Development Bank.

B. Monitoring

77. **Project performance monitoring.** The CPMU in coordination with PMUs will be responsible for all aspects of monitoring and evaluation, including: (i) performance evaluation against project milestones; (ii) safeguards monitoring; (iii) financial commitments and (iv) implementation of risk mitigating actions plan. Reports on project achievements will be provided quarterly and summarized annually. Quarterly reports will contain update contract awards and disbursements projections based on Project Performance Review requirement presented in Appendix 3. In addition, the consultants will develop, and the PMU will approve, a project performance monitoring system (PPMS) based on existing PPMS in use for other ADB projects and will include spatial visualization interface (GIS based). ²⁸ The PIUs will conduct regular monitoring, using the same indicators and submit reports to PMU and ADB.

78. **Compliance monitoring.** The status of compliance with loan covenants will be reviewed at each ADB review mission. Any non-compliance issues will be specified in the quarterly progress reports together with remedial actions.

79. **Safeguards monitoring.** The executing and implementing agencies will brief the PIU Safeguards Focal Persons on monitoring requirements for IEE/EMP, RP, RCCDP, and CAP implementation and RCCDP implementation. Monitoring data will be generated by the PIUs. The PIUs will submit semi-annual safeguards monitoring reports to the CPMU. The CPMU supported by the consultants will prepare consolidated semi-annual monitoring reports (one for environment and one for involuntary resettlement) that describe progress of safeguards implementation, compliance issues, and corrective actions. Reports will be posted on the project website, and the implementing agencies (through the PIUs) will make hard copies accessible to the public. Safeguards monitoring requirements including suggested monitoring report formats are in the EARF and RCCDF.

80. **Gender and social dimensions monitoring** Regular monitoring of gender related indicators/targets included in the DMF and the GAP will be done during project implementation. The PPMS will ensure that data disaggregated by sex is collected, analyzed, and reported on wherever relevant and will allow to monitor women's participation in all construction and capacity-building activities supported by the project. Progress reports on the implementation of the GAP will be submitted to ADB at least on a semi-annual basis using the GAP progress monitoring template as part of the quarterly progress report. Participatory monitoring of project impacts will be implemented at the mid-term of the project and this will include focus group discussions and interviews with women and adolescent girls who are direct beneficiaries of activities supported by the project to obtain both quantitative and qualitative data.

C. Evaluation

81. An inception mission will be scheduled shortly after loan effectiveness. Implementation review missions will be held every three to six months. A midterm review is tentatively scheduled for end of 2020. Within 6 months of physical completion of the Project, the executing agency will submit a project completion report to ADB.

²⁸ ADB's project performance reporting system is available at <http://www.adb.org/Documents/Slideshows/PPMS/default.asp?p=evaltool>

D. Reporting

82. The executing agency will provide ADB with (i) quarterly progress reports in a format consistent with ADB's project performance reporting system; (ii) consolidated annual reports including (a) progress achieved by output as measured through the indicator's performance targets, (b) key implementation issues and solutions, (c) updated procurement plan, and (d) updated implementation plan for the next 12 months; (iii) semi-annual safeguards monitoring reports (one for environment and one for involuntary resettlement); and (iv) a project completion report within 6 months of physical completion of the project. To ensure that the Project will continue to be both viable and sustainable, Project accounts and the EA's audited financial statement together with the associated auditor's report, should be adequately reviewed. An outline of quarterly report progress format is in Appendix 2.

E. Stakeholder Communication Strategy

83. The project will comply with the policy of transparency and accountability of the ADB Public Communications Policy (PCP) 2011 and –beginning 1 January 2019– the Access to Information Policy (AIP). To do so, it will establish a communications strategy that will ensure an efficient and continuous two-way communication about ADB projects with stakeholders with a focus on managing stakeholders' expectation during all phases of the project implementation. The strategy will follow the following approaches:

- (i) **Stakeholders.** Critical stakeholders for the project include people affected by the disasters, project-affected persons in general, and women and vulnerable groups. Other key stakeholders include but are not limited to executing and implementing agencies, government officials at national and sub-national levels, interested community-based organizations, interested civil society organizations, interested private sector entities, and interested development partners especially those working on the rehabilitation and reconstruction of the area;
- (ii) **Disclosure.** PMUs and PIU will disclose on their respective websites all key project-related information, including the scope, cost, and financial and institutional arrangements of the project, project safeguard reports, project progress such as procurement and contract award, and the audited financial project financial statements. The project will also provide contact details on the PMU and PIUs counterpart staff;
- (iii) **Communication focal point.** PMUs and PIUs will be responsible for implementation and monitoring of information dissemination and disclosure of the project's components. PMUs and PIUs shall also designate a focal point to identify, strategize, and coordinate such implementation and monitoring as well as being the custodian of all project's information;
- (iv) **Awareness-raising materials.** The project will at the minimum prepare: (a) a Project Fact Sheet or Project Information Booklet which contains details such as project's objectives, components, activities, timeline, the focal point's name and contact details, and grievance redress mechanism; (b) a Project Brief which summarizes all the project's details in a simple language and utilizing stories and infographics targeting a wider group of audience, including the poor and women. Both documents will be made in Indonesian and English languages and will be available for public in print at the project information desk, distributed during all

stakeholders' consultations and outreach activities, and posted online on ADB website. Other information materials may be developed for distinct stakeholder groups;

- (v) **Channels.** For an effective dissemination and efficient use of resources, collaboration with other readily available channels should be highly prioritized, including but not limited to government websites both at national and subnational levels; government social media accounts; and ADB website and its other online platforms. All online platforms will be optimally utilized to ensure unrestricted public access to information and documents repository. Meanwhile, conventional methods will remain be used as appropriate to ensure that all interested stakeholders have access to information, including but not limited to: setting up a project information desk at a designated spot in the project area; face-to-face communications during stakeholders' consultations and outreach; setting up project signage at the areas of civil works; displaying posters and banners at the relevant government offices; making project fact sheets and brief available at these offices; and re-using project information as interview materials, articles, and advertorials in media. The project will explore partnership with national and local print, electronic and digital media organizations to disseminate project's information. The project will also proactively seek opportunities to participate in local community activities and provide information about the projects;
- (vi) **Coordination.** The project through the focal point will coordinate with relevant government agencies and development partners particularly those working on the rehabilitation and reconstruction of the area to ensure effective communication effort by avoiding overlaps and identity potential collaboration if possible.

84. This strategy will be presented in detail as a project's communications strategy matrix of the government and ADB. The matrix will outline project's communications context and outcomes, objectives, key messages, specific channels and activities, timeline of delivery, work responsibility and resource allocation.

X. ANTICORRUPTION POLICY

85. ADB reserves the right to investigate, directly or through its agents, any violations of the Anticorruption Policy relating to the EARR.²⁹ All contracts financed by ADB shall include provisions specifying the right of ADB to audit and examine the records and accounts of the executing agency and all project contractors, suppliers, consultants, and other service providers. Individuals and/or entities on ADB's anticorruption debarment list are ineligible to participate in ADB-financed activity and may not be awarded any contracts under the EARR.³⁰

86. To support these efforts, relevant provisions are included in the loan agreement and the bidding documents for the EARR.

XI. ACCOUNTABILITY MECHANISM

87. People who are, or may in the future be, adversely affected by the project may submit complaints to ADB's Accountability Mechanism. The Accountability Mechanism provides an

²⁹ Anticorruption Policy: <http://www.adb.org/Documents/Policies/Anticorruption-Integrity/Policies-Strategies.pdf>

³⁰ ADB's Integrity Office web site: <http://www.adb.org/integrity/unit.asp>

independent forum and process whereby people adversely affected by ADB-assisted projects can voice, and seek a resolution of their problems, as well as report alleged violations of ADB's operational policies and procedures. Before submitting a complaint to the Accountability Mechanism, affected people should try in good faith to solve their problems by working with the concerned ADB operations department. Only after doing that, and if they are still dissatisfied, should they approach the Accountability Mechanism.³¹

XII. RECORD OF CHANGES TO THE PROJECT ADMINISTRATION MANUAL

88. The PAM will be subject to change after ADB Board approval of the project and during the period of project implementation. All revisions and updates of the PAM made should be recorded in this section to provide a chronological history of the changes to the implementation arrangements recorded in PAM.

³¹ Accountability Mechanism. <http://www.adb.org/Accountability-Mechanism/default.asp>.

PROFILES OF POTENTIAL SUBPROJECT UNDER OUTPUTS 1 AND 2

Output	Human settlement infrastructure constructed, rehabilitated, and upgraded
Subproject	Reconstruction of Islamic University of Palu
Agency in charge	Central Sulawesi Settlement Infrastructure Agency with support from Center of Educational, Sport, Market Facilities and Building Arrangement, Directorate General Human Settlements
Description	The EARR will finance the rehabilitation and reconstruction of academic facilities to include classrooms, laboratories, teachers' room, and auditorium of IAIN Palu. It supports the development of "green belt" along the beach within the campus area, which is categorized as "red zone". This green belt will be integrated with the dikes to protect from tsunami. The university currently serve 7,691 students (2,657 male and 5,034 female), and employs 159 academic staff and 57 administrative staff. About 80% of the campus facilities were severely damaged due to the earthquake and tsunami.
Preparation	<ul style="list-style-type: none"> • The MPWH Central Sulawesi Task Force has assigned consultants to prepare initial plan for reconstruction and rehabilitation of the campus building and facilities financed by the government; • Ministry of Religious Affairs has initiated to build a campus office which is considered urgent to ensure the academic activities running; • Site plan has been developed and agreed among stakeholders. The plan will include an open space for green belt approximately 100 m from the beach line; where the existing buildings in this area will be demolished; • Architectural plan has been prepared. The campus building will include an auditorium which will be functioned as tsunami shelter. Detail design will be prepared further, based on the agreed EARR's scope. • TOR for the DED consultant has been drafted.
Proposed enhancements	<ul style="list-style-type: none"> • The design of the buildings will include "open space" at the ground floor, which will function as common area. There is no brick wall in the ground floor, to minimize risk from tsunami hazards; • The campus will provide facilities for tsunami shelter, which functions as the save place for people to gather if tsunami happens; • The campus will provide more open and green space along the beach line to reduce the risks from tsunami hazards; • The new buildings will adopt earthquake resistance standard; (b) the site plan will adopt an integrated and green campus design features.

Output	Human settlement infrastructure constructed, rehabilitated, and upgraded
Subproject	Water Supply and Distribution Network System
Agency in charge	Central Sulawesi Settlement Infrastructure Agency with support from Directorate of Settlement Infrastructure Integration Directorate of Water Supply System Development
Description	<p>The project will finance upgrading of up to 100 kilometers of water distribution pipelines and the construction of up to 300-kilometer new pipelines. Furthermore, the project will finance the construction of a new Water Treatment Plant with a capacity of 250 liters per second as well as 23,000 household connection in area affected by liquefaction and 12,000 household connection in new Palu relocation sites.</p> <p>Up to 35,000 households will benefit from the subproject.</p>
Preparation	<p>With proceed from L3455: Accelerating Infrastructure Delivery through Better Engineering Services Project, the Directorate of Water Supply, Ministry of Public Works and Housing will recruit engineers to redesign the central Sulawesi water supply system through a staged approach: (i) master planning to water supply system, (ii) LIDAR surveys, and field investigation ; (ii) Feasibility study; (iii) Detail Engineering Design. The planning will incorporate plans for water supply to new Palu relocation sites and will work closely with the Directorate General for Water Resource to ensure sufficient water resources. The L3455 consultants will also prepare social and environment safeguards document, and bidding documents as per ADB's requirements.</p> <p>The team will ensure that disaster countermeasures are embedded into the detailed design especially liquefaction and seismic countermeasures.</p> <p>To anticipate the engineering designs to be financed under L3455, a team of individual consultants has been mobilized since March 2019 to support the design of the investments.</p>
Proposed enhancements	<ol style="list-style-type: none"> At planning stage, the subproject will develop a master plan to integrate infrastructure, institutional and urban development, considering smart water supply systems for improved operation and maintenance in a comprehensive way. To address future disasters, the subproject will develop standard operation procedure for quick response to the local water utilities (PDAMs) to minimize water shortage after disasters. PDAMs will be strengthened to better design resilient infrastructure, improve operation and maintenance (O&M) of assets, and stay equipped with appropriate instruments for managing water flows across the river basin

Output	Water resource infrastructure constructed, rehabilitated, and upgraded
Subproject	Gumbasa irrigation system
Agency in charge	Balai Wilayah Sungai Sulawesi III
Description	<p>The project will finance reconstruction and upgrading of the 5,500 ha of the Gumbasa irrigation system. This includes main canal works (26.5 km), 12 Secondary canals (48.5 km), diversion gates and other associated facilities.</p> <p>This will be complemented by downstream works proposed under JICA financing.</p> <p>Around 5,000 farmers without access to irrigation water will benefit from the subproject.</p>
Preparation	<p>With proceed from L3455: Accelerating Infrastructure Delivery through Better Engineering Services Project, the Directorate of Irrigation and Low Land, Ministry of Public Works and Housing will recruit engineers to redesign the Gumbasa irrigation system through a staged approach: (i) master planning to integrated infrastructure, institutional and agriculture development, (ii) LIDAR surveys, and field investigation; (ii) Feasibility study; (iii) Detail Engineering Design. The planning will incorporate agriculture development to complement infrastructure works. The consultant will also prepare social and environment safeguards document, and bidding documents as per ADB's requirements.</p> <p>The JICA specialists will work closely with the DILL team to ensure that disaster countermeasures are embedded into the detailed design especially liquefaction and seismic countermeasures.</p> <p>To complement the engineering works to be financed under L3455, and to ensure that aquifer interaction with the Gumbasa system will not lead to liquefaction, it is proposed to mobilize Swiss researchers to conduct a detailed study on the aquifer and its dynamic. The National Research Center for Water Resources (PUSAIR) conducted surveys and prepare a preliminary hydrodynamic model for the aquifer. Further analysis is needed to better understand the aquifer dynamic due to ground movement around the canal and infiltration from the canal system, and to formulate liquefaction countermeasures.</p>
Proposed enhancements	<ol style="list-style-type: none"> At planning stage, the subproject will develop a master plan to integrate infrastructure, institutional and agriculture development, considering smart agriculture, access to market and improved operation and maintenance in a comprehensive way for improved farmers livelihood. To reduce infiltration of irrigation water from the channel and paddy-fields into the aquifer, the subproject will consider: (i) Horizontal wells and intercepting drain; (ii) Concrete lining of the channels; (iii) Deep wells. To address future disasters, the subproject will develop standard operation procedure for quick response to farmers to minimize water shortage after disasters. The river basin organization will be strengthened to better design resilient infrastructure, improve operation and maintenance (O&M) of assets, and stay equipped with hydrometeorological instruments for managing water flows across the river basin

Output	Water resource infrastructure constructed, rehabilitated, and upgraded
Subproject	PASIGALA raw water supply system restored

Agency in charge	Balai Wilayah Sungai Sulawesi III
Description	<p>The project will finance reconstruction and upgrading of the PASIGALA raw water supply (RWS) system. It will be synchronized with water treatment and distribution (WTD) works proposed under output 1. The subproject will restore the 42 km long pipe, the construction of the Wuno weir and PANEKI intake. The PASIGALA raw water supply system fully restored and upgraded will serve 52,000 households through 2040.</p> <p>Asset will be inventoried, and O&M plan developed.</p>
Preparation	<p>With proceed from L3455: Accelerating Infrastructure Delivery through Better Engineering Services Project, the Center for Ground and Raw Water (PUSATAB), Ministry of Public Works and Housing will recruit engineers to redesign the PASIGALA RWS system and associated facilities through a staged approach: (i) master planning to integrated infrastructure, institutional and WTD development, (ii) Feasibility study; (iii) Detail Engineering Design. The consultant will also prepare social and environment safeguards document, and bidding documents as per ADB's requirements.</p> <p>The JICA specialists will work closely with the PUSATAB team to ensure that disaster countermeasures are embedded into the detailed design especially liquefaction and seismic countermeasures.</p> <p>The subproject will ensure close coordination with the Directorate General of Human Settlement to synchronize WTD works.</p>
Proposed enhancements	<ol style="list-style-type: none"> The subproject will consider earthquake proof material for the piping system, the intake and other facilities To address future disasters, the subproject will develop standard operation procedure for quick response to minimize water shortage after disasters. Smart water supply management (decision support system) might be considered under KOICA financing The river basin organization will be strengthened to better design resilient infrastructure, improve operation and maintenance (O&M) of assets, and stay equipped with hydrometeorological instruments for managing water flows across the river basin

Output	Water resource infrastructure constructed, rehabilitated, and upgraded
Subproject	Coastal protection in Palu City reconstructed
Agency in charge	Balai Wilayah Sungai Sulawesi III
Description	<p>The project will finance reconstruction of around 7 km of coastal infrastructure to protect around 10,000 households in the area prone to tidal floods.</p> <p>The subproject will be synchronized with the tsunami dyke under the Directorate General of Highway, proposed for JICA financing. Asset will be inventoried and O&M plan developed.</p>
Preparation	With proceed from L3440: Flood Management in Selected River Basins Sector Project, the Directorate of River and Coastal, Ministry of Public Works and Housing prepared the detailed engineering design. Several workshops with coastal management and tsunami experts confirmed the design.
Proposed enhancements	<ul style="list-style-type: none"> a. The design considers potential earthquake and tsunami b. To address future disasters, the subproject will develop standard operation procedure for quick response to minimize tidal damage after disasters. c. Government of the Netherlands has been providing technical expertise to further proof the design. The report is being prepared. d. The river basin organization will be strengthened to better design resilient infrastructure, improve operation and maintenance (O&M) of assets, and stay equipped with hydrometeorological instruments for managing water flows across the river basin

Output	Water resource infrastructure constructed, rehabilitated, and upgraded
Subproject	Capacity building for resilient water resources infrastructure
Agency in charge	Balai Wilayah Sungai Sulawesi III
Description	<p>To complement investments in resilient infrastructure, the project will strengthen the capacity of the river basin organization to better design and manage resilient infrastructure. The project will:</p> <ul style="list-style-type: none"> - Mobilize a pool of experts (coastal, irrigation, geotechnical, liquefaction, groundwater etc) to advise the RBO in subproject design. - Provide exposure to international best practices in designing and managing resilient water resources assets, such as in Japan - Prepare guidelines to design and manage water resources resilient infrastructure - Prepare disaster response operation guidelines for Central Sulawesi

OUTLINE QUARTERLY PROGRESS REPORT

All information will be provided for quarter preceding issuance of report.

Section A: Implementation Progress

1. General data on progress in implementation
2. Problems encountered and resolved
3. Other issues pending
4. Other information or data relevant for project
5. Safeguard compliance on projects
6. GAP implementation progress
7. Risk mitigating action plan implementation progress
8. Updated implementation progress

Section B: Procurement Information

1. Detailed report on procurement activities
 - a. Status of bidding documents
 - b. Status of bids in progress
 - c. Contracts awarded
 - d. Contracts closed
 - e. Contracts with issues
2. Procurement plan for next quarter (or updated procurement plan spreadsheet)

Section C: Financial Information

1. Disbursement status
2. Special account status
3. Loan and Grant commitments
4. Contract payments
5. Status of audits
6. Other financial management issues

Section D: Other Information

1. Major/minor change in scope
 - a. Cost escalations
 - b. Revision in cost category
 - c. Change in implementation procedures
2. 2 Major activities planned for next quarter

Attachments:

1. **PPR:** The quarterly report will be accompanied by an updated Project Performance Review (PPR) spreadsheet comprising (i) updated project implementation plan, (ii) contract awards and disbursement graphs and (ii) contract awards and disbursement plan.
2. **GAP:** GAP monitoring will accompany the quarterly report and provide information on progress achieved to meet each target identified in the GAP.
3. **Stakeholder Communication Strategy:** At EARR inception, the government and ADB will agree on a strategy and action plan to disseminate information on the EARR's objective, outcome, and outputs. The quarterly report will provide details on activities and progress towards EARR outcome

OUTLINE SUBPROJECT SUMMARY REPORT

i. FOREWORD

1 GENERAL

- 1.1 Project Background
- 1.2 Objectives and Scope of the Project
- 1.3 Objective and Scope of the SSR
- 1.4 Information Basis

2 PROFILE OF PROJECT AREA IN THE PRESENT SITUATION

- 2.1 General
- 2.2 Flooding
- 2.3 Hydrology
- 2.4 Soil and Land Use
- 2.5 Infrastructure
- 2.6 Socio-Economic Aspects
- 2.7 Climate Change
- 2.8 Determination of Flood Event and Flooding Situation

3 WORKS PROPOSED UNDER THE PROJECT

- 3.1 Project Objective
- 3.2 Scope of Work
 - A. Civil Works
 - B. Non-civil Works
- 3.3 Estimated Construction/Implementation Cost of the Proposed Works
- 3.4 Project Implementation

4 PROJECT IMPACT

- 4.1 Future "Without-the-Project" Situation
- 4.2 Project Beneficiaries
- 4.3 Project Benefits
 - 4.3.1 Direct Benefits
 - 4.3.2 Indirect Tangible Benefits
 - 4.3.3 Intangible Benefits
 - 4.3.4 Summary of Project Benefits
- 4.4 Social Impact
- 4.5 Environmental Impact

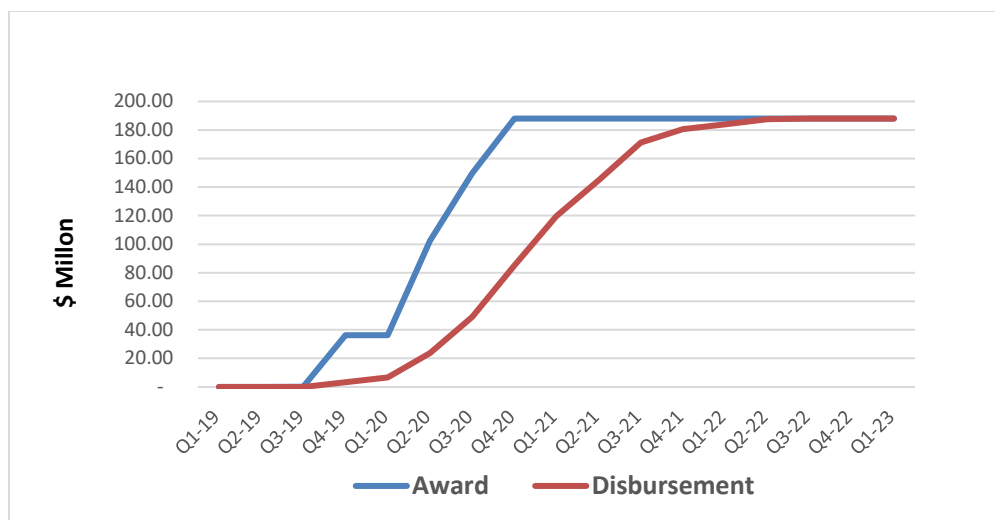
5 ECONOMIC ANALYSIS

- 5.1 Cost-Benefit Analysis
 - 5.1.1 Project Economic Costs and Benefits
 - 5.1.2 Economic Evaluation
- 5.2 Sensitivity Analysis

6 CONCLUSIONS AND RECOMMENDATIONS

CONTRACT AWARD AND DISBURSEMENT PLAN

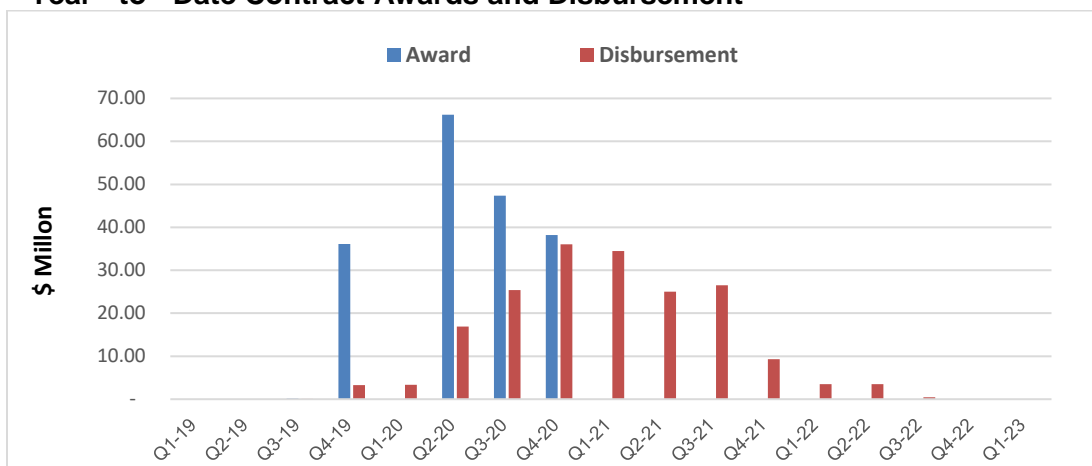
A. Project - to - Date Contract Awards and Disbursement



Year	Contract Awards (in USD million)				Disbursements (in USD million)			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
2019	0.00	0.00	0.15	36.26	0.00	0.00	0.02	3.31
2020	36.26	102.44	149.78	188.00	6.66	23.60	49.03	85.10
2021	188.00	188.00	188.00	188.00	119.61	144.67	171.22	180.49
2022	188.00	188.00	188.00	188.00	184.02	187.55	188.00	188.00
2023	188.00	-	-	-	188.00	-	-	-

Note: Numbers may not tally due to rounding.

B. Year - to - Date Contract Awards and Disbursement



Year to Date	Contract Awards (in USD million)					Disbursements (in USD million)				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
2019	0.00	0.00	0.15	36.11	36.26	0.00	0.00	0.02	3.30	3.31
2020	0.00	66.18	47.34	38.22	151.74	3.35	16.94	25.43	36.07	81.79
2021	0.00	0.00	0.00	0.00	0.00	34.51	25.06	26.55	9.28	95.39
2022	0.00	0.00	0.00	0.00	0.00	3.53	3.53	0.45	0.00	7.51
2023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Contract Awards: 188.00						Total Disbursement: 188.00				

Note: Numbers may not tally due to rounding.

PROCUREMENT PLAN

Basic Data		
Project Name: Emergency Assistance for Rehabilitation and Reconstruction		
Project Number: 53216-001	Approval Number:	
Country: Indonesia	Executing Agencies: Ministry of Public Works and Housing	
Project Procurement Classification: A	Implementing Agencies: Directorate General of Human Settlements (Output 1), Directorate General of Water Resources (Output 2)	
Procurement Risk: Medium		
Project Financing Amount: \$235.45 million ADB Financing: \$188 million Non-ADB Financing: \$47.45 million	Project Closing 30 September 2023	
Date of First Procurement Plan: 23 May 2019	Date of this Procurement Plan: 23 May 2019	
Procurement Plan Duration: 18 months	Advance contracting: Yes	eGP: Yes

A. Methods, Review and Procurement Plan

Except as the Asian Development Bank (ADB) may otherwise agree, the following methods shall apply to procurement of goods, works, non-consulting services, and consulting services.

Procurement of Goods, Works, and Non-consulting Services		
Method	Applicability	Comments
OCB (Open Competitive Bidding) for Works	Default method	Prior review will be applied for the first OCB national, and large works contracts. Post review (sampling) for the remaining packages.
OCB (Open Competitive Bidding) for Goods	Default method	Prior review will be applied for the first OCB national and large goods contracts. Post review (sampling) for the remaining packages.
RFQ (Request for Quotation)	Up to \$100,000	Post Review

Consulting Services	
Method	Comments
Quality and Cost Based Selection (QCBS)	Default method, for consulting team contracts that do not meet the criteria of other selection methods.
Individual Consultant Selection (ICS)	For individual consultant contract.
Resource Person (RP)	For panel of experts

B. List of Active Procurement Packages (Contracts)

The following table lists goods, works and consulting services contracts for which the procurement activity is either ongoing or expected to commence within the procurement plan duration.

Goods and Works							
Package Number	General Description	Estimated Value (\$ million) net of VAT	Procurement Method	Review	Bidding Procedure	Advertisement Date	Comments
CW University	Works- Reconstruction of Islamic University of Palu	6.93	OCB	Prior review if the first OCB of the procurement working group. Otherwise, post review (sampling)	1S1E	Q4 2020	Advertisement: National, Prequalification of Bidders: No Domestic Preference Applicable: No Type of bidding document: ADB's SBD Small Works
CW Water Supply System (Multiple contracts)	Works - Rehabilitation and construction of water supply system (including distribution networks for Palu and Sigi and construction of WTP)	28.71	OCB	Prior review if the first OCB of the procurement working group. Otherwise, post review (sampling)	1S1E	Q3 2020 for the first package	Advertisement: National, Prequalification of Bidders: No Domestic Preference Applicable: No Type of bidding document: ADB's SBD Large Works (if the estimated contract value is above \$10 million) or Small Works (if less than \$10 million)
CW Irrigation (Multiple contracts)	Works – Reconstruction and modernization of Gumbasa irrigation system	73.57	OCB	Prior review if (i) the first OCB of the procurement working group or (ii) large works (\$40 million and above) contracts. Post review (sampling) for the remaining packages.	1S1E	Q3 2020 for the first package	Advertisement: National, Prequalification of Bidders: No Domestic Preference Applicable: No Type of bidding document: ADB's SBD Large Works (if the estimated contract value is above \$10 million) or Small Works (if less than \$10 million)

Goods and Works							
Package Number	General Description	Estimated Value (\$ million) net of VAT	Procurement Method	Review	Bidding Procedure	Advertisement Date	Comments
CW Raw Water (Multiple contracts)	Works – Upgrading of Raw Water Supply System of Wuno, PASIGALA, and Paneki	32.28	OCB	Prior review if the first OCB of the procurement working group. Post review (sampling) for the remaining packages.	1S1E	Q3 2020 for the first package	Advertisement: National, Prequalification of Bidders: No Domestic Preference Applicable: No Type of bidding document: ADB's SBD Large Works (if the estimated contract value is above \$10 million) or Small Works (if less than \$10 million)
CW River and Coastal	Works - Coastal protection	23.43	OCB	Prior if the first OCB of the procurement working group. Otherwise, post (sampling).	1S1E	Q3 2019	Advertisement: National, Prequalification of Bidders: No Domestic Preference Applicable: No Type of bidding document: ADB's SBD Large Works
EQ 01	Goods - Hydrometeorological and telemetric equipment	0.36	RFQ	Post review	1S1E	Q1 2020	Advertisement: National, Prequalification of Bidders: No Domestic Preference Applicable: No Type of bidding document: ADB's RFQ Goods.

1S1E = single-stage: one-envelope, ADB = Asian Development Bank, OCB = open competitive bidding, PASIGALA = Palu-Sigi-Donggala, Q = quarter, RFQ = request for quotations, SBD = standard bidding documents, WTP = water treatment plant.

Consulting Services							
Package Number	General Description	Estimated Value (\$ million)	Selection Method	Review	Type of Proposal	Advertisement Date	Comments
CS CPMU	Project Management Consultant to Support CPMU	1.43	QCBS	Prior	STP	Q2, 2019	To be procured by Central Procurement Agency of MPWH Advance procurement: Yes Assignment/Advertisement: International /National eGP: SPSE ICB
Individual CPMU	Bridging Consultants for start-up activities (individual consultants)	0.14	ICS	Prior	-	Q2, 2019	To be procured by Central Procurement Agency of MPWH Advance procurement: Yes Assignment/Advertisement: International /National
Experts Panel CPMU	Pool of experts	0.21	RP	Prior	-	Q2, 2019	To be procured by Central Procurement Agency of MPWH Advance procurement: No Assignment/Advertisement: International /National
CS DGHS	Engineering and Management Consultant to Support PIU DGHS	2.45	QCBS	Prior	FTP	Q2 2019	To be procured by Regional Procurement Agency of Central Sulawesi Advance procurement: Yes Assignment/Advertisement: International /National eGP: SPSE ICB
CS DGWR	Engineering and Management Consultant to Support PIU DGWR	5.36	QCBS	Prior	FTP	Q2, 2019	To be procured by Regional Procurement Agency of Central Sulawesi Advance procurement: Yes Assignment/Advertisement: International /National eGP: SPSE ICB

CPMU = central project management unit, DGHS = Directorate General of Human Settlements, DGWR = Directorate General of Water Resources, eGP = e-Government Procurement, FTP = full technical proposal, ICS = individual consultant selection, MPWH = Ministry of Public Works and Housing, PIU = project implementation unit, Q = quarter, QCBS = quality- and cost-based selection, RP = resource person, SPSE ICB = electronic government procurement system which is formerly dedicated to facilitate international competitive bidding of consultant recruitment, STP = simplified technical proposal.

Terms of Reference of Consultants

**TERMS OF REFERENCE
PROJECT MANAGEMENT CONSULTANT (PMC)
EMERGENCY ASSISTANCE FOR
REHABILITATION AND RECONSTRUCTION (EARR)
COMPONENT 1: PUBLIC WORKS INFRASTRUCTURE**

A. BACKGROUND

1. The Government of Indonesia with the support from the Asian Development Bank (ADB) is implementing the Emergency Assistance for Rehabilitation and Reconstruction (EARR), which supports the government in rebuilding infrastructure damaged by devastating disaster events in Central Sulawesi in September 2018. It will support rehabilitation and reconstruction of education facilities, water supply treatment and distribution facilities, water resources infrastructure, ports, and airport. All infrastructure will be built to higher standards of disaster resilience.
2. The EARR has two components, the first component is under the Ministry of Public Works and Housing and the second component is under the Ministry of Transportation. This Project Management Consultancy is intended to support the first component.
3. Ministry of Public Work and Housing (MPWH) through the Directorate General of Water Resources (DGWR) is the Executing Agency of the EARR and Directorate General of Human Settlement (DGHS) and Directorate General of Water Resources (DGHS) are the Implementing Agencies. The Project Implementation Units (PIUs) are River Basin Organization (*Balai Wilayah Sungai*) Sulawesi III (BWSS III) and Central Sulawesi Settlement Infrastructure Agency. The MPWH will establish a steering committee to guide and monitor the EARR's overall implementation and ensure that the Project can be completed on time and within the available budget. The DGWR has established a Central Project Management Unit (CPMU), headed by the Director of Water Resources Development, which will have a Project Manager to be responsible for managing the CPMU activities, project planning and implementation management, preparation of progress reports, and ensuring that ADB guidelines are complied. The CPMU will have full coordination with the PIUs in Central Sulawesi.
4. To support the CPMU, a qualified Project Management Consultant (PMC) team is sought to: (i) provide day to day management support to the CPMU in leading and coordinate EARR activities, (ii) closely monitor project implementation activities and provide technical and management advice to the PIUs, (iii) assist the CPMU to determine annual works program, (iv) ensure compliance with loan covenants, ADB's policies, social and environmental safeguards requirements, procurement procedures, performance indicators, physical achievements and expenditures and preparation, and (v) maintain EARR account, prepare withdrawal applications (WA) including retention of supporting documents and submit the WAs (through MOF) to ADB (vi) consolidate quarterly and annual reports, including safeguards and audited annual project financial statements and ensure timely submission of various reports to all stakeholders including ADB.

B. PROJECT OVERVIEW

5. The EARR is to be implemented over 3 years, from 2019 to 2022, with a project closing on 30 April 2023. The EARR's impact will be the socio-economic impact of disaster reduced in line with the National Medium Term Development Plan (RPJMN). The outcome will be people's access to resilient and inclusive critical infrastructure restored. The EARR has the following outputs under component 1 public works infrastructure. It will apply a sector lending approach in

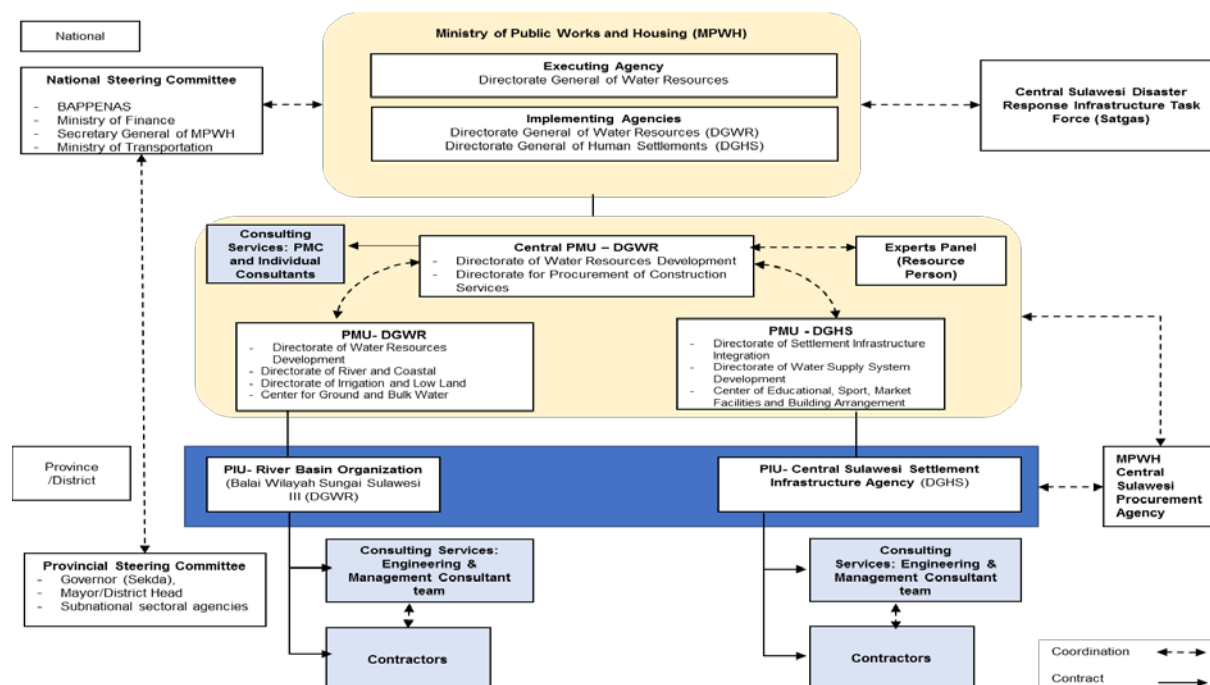
selecting subprojects under each of the outputs.

6. **Output 1: Human settlements infrastructure rehabilitated and reconstructed.** The output will rehabilitate and/or reconstruct (i) education facilities; and (ii) water supply (treatment and distribution facilities) infrastructure in Central Sulawesi. The facilities will be built back better to higher standards of disaster resilience, which will ensure risks from future hazards are reduced through structural design features, and at the same time non-structural measures such as disaster preparedness plans are implemented. The output will ensure that sustainability plans are in place and capacity of agencies strengthened to better manage water supply services.

7. **Output 2: Water infrastructure rehabilitated and upgraded.** The output will (i) restore the Gumbasa irrigation system; (ii) restore the PASIGALA raw water supply system; and (iii) construct dykes to prevent tidal flooding in Central Sulawesi. Where possible, nature-based solutions will be promoted. The river basin organization will be strengthened to better design resilient infrastructure, improve O&M of assets, and stay equipped with hydrometeorological instruments for managing water flows across the river basin.

8. Component 1 of EARR organization structure is presented in Figure 1.

Figure 1. EARR Organization Structure of MPWH Component



C. OBJECTIVE

9. The purpose of the PMC assignment is to enhance the assurance of sound project implementation, monitoring, and reporting by providing management support to the CPMU in preparation, monitoring, evaluation, control and documentation of the implementation of EARR at two MPWH's PIUs. A national consulting firm with national experts who have intensive experiences in project management of water supply and water resources infrastructure facilities will be recruited. Experience in managing reconstruction of post disaster event with resilient features will be an added value.

D. SCOPE OF SERVICES

10. The PMC is responsible for carrying out all tasks to ensure successful implementation of the EARR throughout the whole period of project implementation. The PMC will prepare all necessary reports/analysis/documents as required to successfully manage the implementation of the EARR as envisaged in the loan agreement and associated documents. Furthermore, the PMC shall carry out other tasks related to the EARR based on the instructions of the CPMU. The PMC shall be familiar with all loan documentation, including Project Administration Memorandum (PAM) and preparatory work of the EARR. There will be 5 (five) core tasks of the PMC, i.e., (i) planning, administration and management of the EARR project, (ii) technical and management advice to the CPMU, PMUs and PIUs, (iii) ensuring compliance of the project implementation to the ADB procurement policies and safeguards guidelines and requirements, and relevant government regulations, (iv) reporting, (v) monitoring and evaluation.

11. The services to be provided by the PMC include, but are not limited to, the following:

- (i) Proactively assist the CPMU in day-to-day project management and coordination with the respective PMUs, PIUs and local governments to create synergies and expedite the EARR implementation.
- (ii) Help CPMU, PMUs and PIUs to ensure that all loan covenants and EARR Design and Monitoring Frameworks (DMF) are fully complied. Coordinate the stakeholders and partners at national and local levels to create synergies and expedite the EARR implementation.
- (iii) Assist CPMU, PMUs and PIUs to ensure that the implementation of procurement, integrity/anti-corruption, social safeguards, environment and gender activities are complied with the requirements stipulated in the loan documentation. Proactively provide advices and take actions on any procurement and safeguard compliance issues. The aim is to provide quality procurement and safeguard support, reduce safeguard and end-to-end procurement time and improve the delivery of EARR outputs;
- (iv) Review the submitted project related documents from PIUs and ensure that the documents fully meet with the requirements and are complied with ADB guidelines and government regulations prior to further submission to the respective stakeholders.
- (v) Review bid evaluation and consultant selection reports, prior to the submission to ADB. Ensure quality of the procurement document.
- (vi) Prepare and maintain project master schedule for overall EARR implementation. Proactively monitor and take actions promptly if any issue which will cause delayed implementation.
- (vii) Based on the available S Curve of the EARR, prepare annual budget allocation planning on a timely manner in accordance with the government's budgeting cycle.
- (viii) Prepare consolidated contract awards and disbursement projections.

- (ix) Support the CPMU to ensure that the provision of funds is provided timely, loan finance is managed appropriately, withdrawal application is processed properly, financial reports is delivered timely, and EARR assets are registered completely in the government asset information system.
- (x) Establish and maintain a Geographic Information System (GIS)-based project performance monitoring system (PPMS) to monitor progress of the EARR. Align the PPMS with the MPWH e-monitoring system.
- (xi) Deliver high quality reports in accordance with reporting requirements stipulated in the loan documentation, including progress, bi-annual environmental safeguards monitoring, social safeguard, gender, financial, and project completion reports and submit the reports timely to respective stakeholders, including to ADB. Prepare draft consolidated financial reports for external auditing purposes. Ensure disclosure requirements are complied with.
- (xii) Establish communication and information channel of EARR activities to all stakeholders and update it regularly.
- (xiii) Assist CPMU in managing panel of experts.
- (xiv) Assist CPMU and PMUs in planning and organizing capacity building for resilient infrastructure, taken into consideration introduction of innovative/new technologies and nature-based solution.

E. STAFFING

12. The PMC is required to provide inputs as indicated in Table 2 below. The list of experts provided hereunder is indicative and the PMC may include additional experts that may be required to successfully complete the assignment. The tasks for each expert shall be read in conjunction with the Scope of Services. However, the tasks for individual specialists and the scope of services are not exhaustive, and the PMC will be required to carry out such additional tasks that are relevant and incidental for successful implementation of EARR.

Table 2: Indicative Consultant Inputs

Team Composition^a	Person-months
Key experts	
1. Water Resources Management Specialist/Team Leader	36
2. Water Supply System (WSS) Specialist/Co Team Leader	36
3. Financial Management Specialist	30
4. Procurement and Contract Specialist	24
5. Gender Specialist	30
6. Social Safeguard Specialist	30
7. Environmental Safeguard specialist	24
8. Monitoring and Evaluation specialist	30
9. Communication and Media Specialist	18
Sub-total (Key experts)	258

Non-key experts	
10. Financial Management Assistant	30
11. GIS Database Assistant	30
Sub-total (Non-key experts)	60
Total Key and Non-key experts	318

^a All are national positions.

13. Only the CVs of key experts will be scored as part of the technical evaluation of proposals. The CVs of non-key experts will not be scored; however, the selection committee will review and individually approve/reject each CV for each position in the proposal.

14. All positions under the contract, key as much as non-key experts, **must** be included and budgeted in the financial proposal.

F. QUALIFICATIONS AND TASKS OF KEY-EXPERTS AND NON-KEY EXPERTS

15. The qualifications and tasks of the key and non-key experts are as follows:

(i) Senior Water Resources Management Specialist as Team Leader

The team leader will represent the PMC in all contract-related matters, such as technical tasks, quality control, contractual, personnel, scheduling, and technical performance issues. S/he will be responsible for overall co-ordination of team activities and will be directly responsible to the CPMU Manager. The main responsibility will be to do quality assurance and to help CPMU in leading and coordinating the EARR activities and ensure that EARR can be completed on time and within the available budget. The team leader should be proactive in updating project costs regularly and identify any possible loan savings or shortfalls as early as possible. S/he will have overall responsibility in technical advisory, management and monitoring all tasks under the contract, setting up technical guidance and standards as necessary. This includes ensuring procurement, financial management and safeguards are properly implemented, based on the advice of the respective specialists. The Team Leader should possess good communication skills in English and Bahasa (written and oral), strong organization skills and ability to work in a team-oriented, dynamic and diverse environment and multidisciplinary team.

The specialist will preferably have a postgraduate degree in water resources engineering or civil engineering with relevant experience in managing foreign assisted projects. S/he will have experience of a minimum 15 years in water resources infrastructure project and of a minimum 10 years in leadership position and should be fluent in English, both oral written. Consultant holding any certification as a water resources expert issued by relevant professional institution will be a merit.

The tasks of Team Leader shall include, but not be limited to, the following:

- a) Maintain close contact with CPMU, PMUs, PIUs, EMCs and other stakeholders particularly at central level such as National Development Planning Ministry (BAPPENAS), Ministry of Finance (MOF) and other

- components of MPWH and ADB, to ensure that the EARR is implemented smoothly and timely;
- b) Facilitate overall coordination among government institutions at central and local levels to ensure successful implementation of the EARR;
 - c) Identify tasks on the critical path, timely mobilize the team members and ensure that their implementation schedules suit the EARR overall implementation plan;
 - d) Lead the consultant team in coordination of inputs and management of individual specialists in respect to their responsibilities;
 - e) Coordinate EARR activities to ensure optimal and effective utilization of resources;
 - f) Provide technical guidance to all members of the team. Brief team members on (a) quality management, (b) safety and security issues, and (c) integrity and professional conduct, and keep the team updated on changes in the operating environment or procedures;
 - g) Providing advice to EMC and implementing contractors, both technical and management to meet build back better;
 - h) Establish and implement a frame work for a quality management control system for EARR activities;
 - i) Establish reporting formats and forms for project progress reports;
 - j) Help the CPMU to prepare project reporting and ensure timely delivery of specified reports in a format acceptable to the government and the ADB;
 - k) Coordinate with CPMU, PIUs and EMCs in setting quality assurances measures;
 - l) Monitor progress and compliance with the agreed requirements and take necessary action to solve any issue;
 - m) Conduct project monitoring and maintain a master schedule of all EARR activities and monitor performance against progress, identifying problem areas and working with the CPMU, PMUs and PIUs to solve these problems;
 - n) Prepare inception report, monthly progress reports, quarterly progress reports, final reports, annual reports, Project Completion Report (PCR) and other reports as required by the CPMU, following requirement set out in the PAM, and with input from other Specialists;
 - o) Provide input to detailed engineering design of output 1 and provide advice to EMC and implementing contractors, both technical and management to meet build back better;
 - p) Participate in ADB project review missions and perform other tasks as requested by the CPMU;

(ii) Water Supply System (WSS) Specialist/Co Team Leader

The Co Team Leader will co leading and managing PMC team. The main responsibility will be to serve as focal point for implementation of Output 2 of EARR public works infrastructure. S/he will help team leader in supervising safeguards activities are properly implemented, based on the advice of the Social Safeguard, Environmental Safeguard and Gender Specialists. S/he will collaborate with Team Leader in developing and delivering various reports. S/he will assist CPMU to manage expert panel and capacity building activities. The Co Team Leader should possess good communication skills in English and Bahasa (written and oral), strong organization skills and ability to work in a team-oriented, dynamic and multidisciplinary team.

The specialist will preferably have a postgraduate degree in water engineering or civil engineering with relevant experience in managing foreign assisted projects. S/he will have experience of a minimum 10 years in WSS infrastructure project and of a minimum 8 years in leadership position and should be fluent in English, both oral written. Consultant holding any certification as a WSS expert issued by relevant professional institution will be a merit.

The tasks of Co Team Leader shall include, but not be limited to, the following:

- a) Assist Team Leader in managing EARR, particularly in supervising social safeguard, environment safeguard, gender and in developing various reports;
- b) Manage achievement of output 2 of EARR public work infrastructure;
- c) Maintain continual liaison particularly with IA and PIU DGHS and other related stakeholders of output 2;
- d) Assist CPMU in managing panel of experts;
- e) Help CPMU in planning and managing capacity building activities for both Implementing Agencies and PIUs;
- f) Prepare presentations related to deliverables, and prepare workshop materials if required;
- g) Provide input to detailed engineering design of output 2 and provide advice to EMC and implementing contractors, both technical and management to meet build back better;
- h) Participate in ADB project review missions and perform other tasks as requested by the CPMU;

(iii) Financial Management Specialist

The Specialist will be responsible to design and implement financial management system acceptable to the EA and the ADB, including the impress account system to be maintained in accordance with ADB's guidelines. S/he will establish a sound accounting practice and system to manage the resources available to the EARR.

The consultant should have at least a graduate degree in accounting, business administration, finance, and about 10 years' of relevant experience in financial management of Multilateral Development Bank financed projects. Preference will be given to those who are certified public accountant or having other recognized accounting certification or its equivalent. S/he should possess good communication skills in English and Bahasa (written and oral), strong organization skills and ability to work in a team-oriented, dynamic and multidisciplinary team.

The tasks of Financial Management Specialist shall include, but not limited to:

- a) Assist the CPMU in preparing good quality and timely submission of the monthly, quarterly and annual project financial statements;
- b) Help CPMU in ensuring compliance and due diligence in managing EARR financial resources;
- c) Assist the CPMU in managing fund flow in accordance with component and expenditure categories funded by the EARR;
- d) Assist CPMU to develop and to maintain project financial management system (including procedures for accounting, financial reporting and auditing and loan disbursement for the EARR;

- e) Identify any issues in the financial management system for project implementation and recommend measures to address the issues identified;
- f) Assist the CPMU and PIUs in preparing annual budgets for EARR activities;
- g) Guide and assist CPMU to process loan withdrawal applications in accordance with ADB's and government procedures;
- h) Assist CPMU to prepare and update continuously financial records, projections, and reports of the EARR in accordance with procedural requirements of ADB and the government;
- i) Manage day to day project expenditure and log book;
- j) Monitor, record, and keep updated status of EARR financial expenditures per loan categories/components from time to time;
- k) Assist the CPMU in preparing a consolidated project financial statement;
- l) Support the CPMU in preparing audit by internal/external auditor
- m) Develop capacity of executing and implementing agencies in the field of financial management, including planning and organizing financial management training for EA/IA/PIUs staff.
- n) Provide timely inputs on financial related matters to the team leader for preparing project reports.
- o) Participate in ADB project review missions and perform other tasks as requested by the CPMU

(iv) Procurement and Contract Specialist

The Specialist will be responsible to manage EARR's procurement activities following procurement set up governed in the loan documentation (including PAM). S/he should proactively help CPMU and PIUs and ensure that procurement process comply with the EARR's procurement policy and regulations and meet procurement principle (value for money, transparency, etc). S/he will be responsible to do procurement fiduciary role and quality assurance of procurement related matters/documents. S/he is in charge to help CPMU and PIUs to reduce end to end procurement time to enable timely delivery of EARR infrastructure and services.

The consultant should have at least a graduate degree and/or preferably a master's degree in civil engineering or law or other related field with at least 10 years of experience in handling procurement transactions of large public works infrastructure, of which 7 years of procurement experience using ADB or other MDB guidelines. The consultant shall have strong experience in consultant recruitment as per ADB or other MDB, preparing bidding document and helping bid evaluation, and in resolving legal issues related to public procurement and contract management. S/he shall have good knowledge of the institutional, technical, and commercial aspects of procurement; wide experience in delivering capacity building programs in the field of procurement and contract management. S/he should possess good communication skills in English and Bahasa (written and oral), proactive attitude, strong leadership, thorough and ability to work in a team-oriented, dynamic and multidisciplinary team.

The tasks of the Procurement and Contract Specialist include but are not limited to the following list. The term "CPMU" in this context includes Procurement Agency at central level and the term "PIU" includes Procurement Agency at provincial level in Palu:

- a) Assist the CPMU and PIUs in ensuring timely and quality procurement of the works, goods and consulting services and establish capacity within the PMU and PIUs to undertake procurement following the agreed procurement set-up as described in the PAM;
- b) Assist the CPMU and PIUs in reviewing the bidding documents and the Bid Evaluation Reports (BERs) for civil works, goods and consultancy contracts following the agreed procurement plan before these documents be submitted to ADB;
- c) Assist the CPMU and PIUs in ensuring quality procurement documents;
- d) Help CPMU, PIUs to manage procurement activities and to reduce end to end procurement time;
- e) Assist CPMU and PIUs in all matters related to the use of electronic government procurement system (MPWH's SPSE);
- f) Develop and implement a robust procurement monitoring system and follow up mechanisms to ensure that procurement activities are carried out as planned while identifying any deviations for taking appropriate actions;
- g) Assist the CPMU in proactively monitoring the implementation of procurement activities and take necessary action to solve any issue;
- h) Assist the PMU in reviewing all aspects related to contract management including to review contract addendum before the amendment be submitted to ADB;
- i) Develop capacity of executing and implementing agencies in the field of procurement and contract management, including to plan and deliver procurement training for EA/IA/PIUs staff.
- j) Update the procurement risk assessment and put in place appropriate review and supervision processes and thresholds to mitigate risks;
- k) Help CPMU and PIUs to update EARR procurement plan;
- l) Provide timely inputs on procurement related matters to the team leader for preparing project report;
- m) Participate in ADB project review missions and perform other tasks as requested by the CPMU.

(v) Social Safeguard Specialist

The Specialist will be responsible in helping CPMU and PIUs in updating, implementing and monitoring EARR resettlement plan and ensure that EARR's social safeguards requirements are met. S/he will assist CPMU to prepare and deliver Social Safeguard reports in a good quality and timely manner.

S/he should have at least bachelor degree in Social Science or other relevant major with a minimum of at least 8 years of working on social safeguard (resettlement) in public works infrastructure projects. S/he must be familiar with Indonesian land laws and regulations and procedures and ADB's 2009 Safeguard Policy Statement (SPS) or other multilateral agencies' standards and their requirements. S/he should possess good communication skills in English and Bahasa (written and oral), strong organization skills and ability to work in a team-oriented, dynamic and multidisciplinary team

The tasks of the Social Safeguard (Resettlement) Specialist include but are not limited to the following list:

- a) Help CPMU and PIUs in ensuring that the EARF and RCCDF are followed during subproject preparation and implementation;

- b) Help CPMU and PIUs in ensuring that screening and classification of subprojects consistent with the EARF and RCCDF for submission to relevant agencies and ADB;
- c) Help CPMU in reviewing safeguards documents (IEE, resettlement plan, RCCDP, DDR-CAP) prepared by PIUs, ensure accuracy of the data and improve it if necessary
- d) Help PIUs in implementing LARP and ensure compliance with EARR's social safeguards requirements/Resettlement Framework;
- e) Assist CPMU in monitoring the implementation and monitoring of social safeguard plan, report to CPMU and ADB if any issue, and take corrective actions promptly to solve the issue;
- f) Assist and improve, if necessary, procedures for the coordination of resettlement and compensation activities;
- g) Ensure that grievances are addressed promptly and properly;
- h) Establish and implement liaison mechanisms to ensure proper technical and logistical support to CPMU and PIUs, local administrative authorities, resettlement committees and concerned government departments;
- i) Establish and implement procedures for ongoing internal monitoring;
- j) Design and deliver capacity building in the area of EARR policies on social safeguards, grievance redress mechanism, public consultation process and effective RP implementation for relevant agencies, as needed;
- k) Provide timely inputs on procurement related matters to the team leader for preparing project report;
- l) Participate in ADB project review missions and perform other tasks as requested by the CPMU.

(vi) Environmental Safeguard Specialist

The Specialist will be responsible for ensuring and supporting the PIUs in complying with the environmental safeguards requirements as per EARR loan documentation (including PAM). In the event of occurrence of any unexpected environmental impacts, coordinate with the CPMU to recommend necessary mitigation measures to the PIUs.

The Specialist should have at least a bachelor degree and or preferably a postgraduate in environmental management, engineering, or other relevant field with at least 10 years of working on environmental safeguards in infrastructure projects. S/he must be thoroughly familiar with Indonesia's regulatory framework for environmental management. S/He should preferably familiar with ADB's environmental safeguards requirements as stipulated in the Safeguards Policy Statement (SPS 2009 as amended time to time). Actual experience with implementation of ADB projects in which this policy was applied is preferred. S/he should have accreditation from the government or relevant professional institution/association as an environmental specialist as per the EIA Regulations in Indonesia and should be fluent in English. S/he should possess good communication skills in English and Bahasa (written and oral), strong organization skills and ability to work in a team-oriented, dynamic and multidisciplinary team.

The responsibilities of the Environmental Specialist shall include, but not limited to, the following:

- a) Review various environmental reports/assessments and other information available at the project start to update him/herself with potential environmental issues relevant to the project investment;
- b) Review subproject safeguard categorization and documents including initial environmental examinations (IEE), environmental management plans (EMP), as needed and ensure that environmental safeguards documents be consistent with the EARR's EARF and RCCDF, ADB's SPS 2009, and government laws and regulations.
- c) Provide input to the infrastructure design to improve quality and compliance with best practice and country standards from environmental sustainability and impact perspective;
- d) Review environmental assessments to ensure adequate quality and consistency with the Government's environmental requirements;
- e) Review project environmental categorization in accordance with the EARR's requirements;
- f) Refine the EARF as needed after consultation with CPMU and PIUs;
- g) Review subproject summary report, AMDAL, UKL/UPL, IEE, EMP, bidding documents and other infrastructure project documents to ensure quality and compliance with the environmental requirements as set out in the loan documentation;
- h) Assist the CPMU and PIUs in reviewing updated IEE and Environmental Management Plan (EMP) if and when required;
- i) Assist the CPMU and PIUs in overall monitoring of the environmental related activities taken by PIUs and take necessary action to solve any environmental issue;
- j) Assist the CPMU in preparing bi-annual environmental monitoring reports and deliver the environmental monitoring reports timely;
- k) Provide monitoring of project progress with regard to environmental targets and indicators set out in the loan documentation;
- l) Monitor any grievances brought about environmental issue through the grievance redress mechanisms;
- m) Develop capacity of executing and implementing agencies in the field of environmental, including to plan and deliver environmental training for EA/IA/PIUs staff.
- n) Provide timely inputs on environmental related matters to the team leader for preparing project report.

(vii) Gender Specialist

The Specialist is responsible to support the executing agency and implementing agencies in implementing, monitoring and reporting the GAP and ensuring that GAP implementation is on-track. S/he will ensure that gender target as set out in the loan documentation are met. The Gender Consultant will also be responsible for delivering gender awareness training.

The Specialist should preferably have at least a bachelor's degree in social sciences or related fields with at least 8 years work experience in the area of gender mainstreaming. Work experience in public work infrastructure project is preferred. S/he will have relevant experience of about 10 years. S/he should possess good communication skills in English and Bahasa (written and oral), strong organization skills and ability to work in a team-oriented, dynamic and multidisciplinary team.

The tasks of Gender Specialist shall include, but not limited to the following list. The term CPMU, PMUs and PIUs in this context includes Gender Focal Point in respective unit:

- a) Assist the CPMU and PIUs to implement gender-action plan;
- b) Manage day-to-day GAP activities and monitoring, in coordination with the CPMU and PIUs.
- c) Establish sex-disaggregated baseline data at EARR's inception and maintain sex-disaggregated data during EARR's implementation in collaboration with other Specialists;
- d) Help the CPMU and PIUs in meeting gender target of the EARR;
- e) Promote gender mainstreaming into EARR activities and EARR management tools, including tracking of gender equality results;
- f) Provide input to the public works infrastructure design to ensure that the design is inclusive;
- g) Assist the CPMU and PIUs in preparing report on implementation of gender action plan and GAP implementation progress, including to meet the requirement of gender as stipulated in the project Design and Monitoring Framework;
- h) Leverage consultations with women's groups and other stakeholders to provide to encourage them to participate in the EARR;
- i) Document and promote best practices from gender related activities of the project and;
- j) Provide timely inputs on gender related matters to the team leader for preparing project report.

(viii) Project Performance Monitoring System Specialist

The Specialist will be responsible to develop GIS based PPMS and ensure that the PPMS is in accordance with the project design and monitoring framework (DMF) and PAM requirement and that the system could identify issues quickly and bring to the attention of government and the ADB for prompt resolution.

S/he will have at least a bachelor's degree in Management or Information System or related field with a minimum of 10 years of demonstrated experience in developing and implementing PPMS of public works infrastructure. S/he should have at least 7 years experience in monitoring and evaluation of MDB projects. Having experience in developing GIS based project M&E system will be a plus. S/he should possess good communication skills in English and Bahasa (written and oral), strong organization skills and ability to work in a team-oriented, dynamic and multidisciplinary team.

The tasks of PPMS/Monitoring Specialist include but not limited to the following:

- a) Assist the CPMU in developing project performance management system based on the requirement stipulated in the PAM and update it regularly. The PPMS will facilitate tracking sex-disaggregated data and quantitative and qualitative information on GAP implementation. The PPMS will also align with the MPWH's e-monitoring system as well;
- b) In collaboration with other specialists, develop: (a) indicators that aligns with project design and monitoring framework, and (b) database for effective data collection and management;

- c) In collaboration with GIS Database Assistant, develop a customized GIS based PPMS using a free software;
- d) Monitor progress status and performance of the project and timely bring any issue to the attention of CPMU, PIUs and ADB for prompt resolution;
- e) Support the PMU and Team Leader in ensuring that the project is implemented in accordance with the project design and monitoring framework (DMF) and that issues arising are quickly identified and resolved;
- f) Assist in preparation of necessary guidelines for M&E consistent with loan documents (RRP, Loan Agreement, PAM, IEE/EIA and CEMP, etc.), ADB's and government monitoring and evaluation requirements.
- g) Prepare M&E/PPMS Manuals for monitoring and evaluation;
- h) In collaboration with other Specialists and EMC, collect and update the data, monitor and evaluate project performance as part of the project performance management system;
- i) Support the CPMU in maintaining and update EARR monitoring database;
- j) Support the Team Leader in supervising and guiding the GIS Database Assistant;
- k) Support the Team Leader in timely preparation of the reports.

(ix) Media and Communication Specialist

The main roles of the Specialist are to help CPMU and PIUs to prepare and implement EARR's stakeholder communication strategy, following requirement set out in the PAM. This includes engagement with stakeholders and support activities of other Specialists as appropriate (such as social safeguard, gender, etc). S/he will ensure that the communication and disclosure policy are met. S/he will be based in CPMU and work closely with CPMU, PMU, PIUs, local governments, line agencies, EMC, contractors and local communities.

S/he should have a graduate degree in Communication or public relation and at least 8 years of relevant work experience including experience working in managing communication activities of major public works infrastructure. Experience in working for post disaster reconstruction projects and working for donor assisted projects are preferred. S/he should possess good communication skills in English and Bahasa (written and oral), strong organization skills and ability to work in a team-oriented, dynamic and multidisciplinary team.

The tasks of Media and Communication Specialist include but not limited to the following:

- a) Assist the CPMU and PIUs to develop and implement stakeholders communication strategy. This includes preparation, production, and distribution of communication materials or publications to relevant stakeholders, in collaboration with other Specialists. Special attention to be given to critical stakeholders including people affected by the disasters, project-affected persons in general, and women and vulnerable groups;
- b) Help CPMU and PIUs in planning for and participating in internal and external events including preparing communication materials for each event, drafting notes, press release, etc for CPMU, PMU and PIUs;
- c) Develop and maintain information and communication channel to enable engagement of stakeholders to EARR's implementation;
- d) Establish and maintain good relationships with media;

- e) Research best practices in disaster risk reduction and management, multi-hazard resistance standards, cost effectiveness alternatives based on a review of technical options available to address the identified problems, and lessons learned from previous disasters and/or similar projects in the country or region and share them to CPMU, PMUs, PIUs, PMC, EMCs, etc. This will include new/innovative technology to support build back better and to improve resilience;
- f) Record and compile lessons from EARR's implementation to enable knowledge sharing;
- g) Help Co Team Leader in managing panel of experts and capacity building activity.
- h) Support the Team Leader in timely preparation of the reports.

(x) Financial Management Assistant

The Assistant will assist Financial Management Specialist in verifying expenditures, preparing withdrawal applications, and financial documents, reports or statements. S/he will support the Financial Management Specialist in preparing the monthly, quarterly and annual project financial statements, financial report, preparing budget and projections and managing fund flow.

The Assistant shall preferably have graduated from at least bachelor degree in accounting, business administration, or finance and about 5 years of relevant work experience in financial management of loan financed projects.

(xi) GIS Database Assistant

The Assistant will work under direct supervision of PPMS Specialist to develop, maintain and update GIS database of each work from time to time. The GIS Database Assistant will assist the CPMU and PIUs in project performance monitoring and reporting.

She will preferably have a bachelor's degree in Geography or Information Technology or related field and a minimum of 5 years of demonstrated experience in preparing and maintaining GIS database.

G. DURATION OF SERVICES AND DELIVERABLE

16. The duration of the PMC services will be over 3 years. The tentative schedule of the Project is given in **Annex 1**. During the services, the PMC shall conduct the followings:

1. Meetings

17. The PMC shall conduct the following meetings:

- a) Internal PMC coordination (bi-weekly meetings).
- b) Regular monthly progress meetings with the CPMU.
- c) Regular quarterly progress meetings with the CPMU, PIUs, and EMSCs.
- d) Support the CPMU to initiate project steering committee meetings and quarterly monitoring meeting as convened by BAPPENAS.
- e) Any incidental meetings as instructed by the CPMU.

2. Site Inspection and Coordination

18. The PMC will conduct site inspections on quarterly or semi-annually basis as deemed necessary. During the site inspection, the PMC should discuss with the PIUs and the EMSCs, related to the procurement/contract management, quality of the DED and EMC outputs, infrastructure constructions, and other project related issues, including physical and financial progress, and provides advice. The purpose of site inspections are to get direct information on EARR progress status, issue if any, and provide support/advice to solve any issue. The ultimate goal is to help PIUs delivering the infrastructure and services in time and meets build back better goal.

3. Reporting

19. The PMC is responsible to deliver the following reports with quality and timely submission.
- a) Inception reports – within 30 days of commencing of services
 - b) Brief monthly progress reports - by 5th calendar day after each calendar month
 - c) Quarterly progress reports in a format consistent with ADB's project performance reporting system - by 7th calendar day after the end of the quarter; An outline of quarterly report progress format is in Appendix 2.
 - d) Project Performance Monitoring System (PPMS) reports – within 60 days of commencing services
 - e) Consolidated annual reports - by 15th calendar day after the end of the year. The report will include (a) progress achieved by output as measured through the indicator's performance targets, (b) key implementation issues and solutions, (c) updated procurement plan, and (d) updated implementation plan for the next 12 months;
 - f) Semi-annual safeguards monitoring reports (one for environment and one for involuntary resettlement) by 15th calendar day after the end of semi-annual period;
 - g) A project completion report within 6 months of physical completion of the project.
 - h) Ad-hoc reports (any specific reports that may be required during the services)

H. CLIENT'S INPUT, COUNTERPART PERSONNEL

20. The Client shall provide the following:
- (a) All available documents, reports, data and all other information related to the proposed assignment.
 - (b) Counterpart staff in CPMU, PMUs and PIUs to work with the consultants (this will be identified at the time of contract negotiations or contract implementation).
 - (c) Provide any letters or assistance required by the consultants in obtaining all necessary permits and authorizations for carrying out the services.

21. **Others.** The CPMU has confirmed that they will appoint counterpart staff to manage and supervise the PMC. The CPMU will also provide access to project's data and information and access to meeting facilities.

22. The PMC will have to establish an office in Jakarta, close from the CPMU office. The PMU due to limited resources may not be able to provide adequate space for PMC office. Hence, the PMC will have to rent office space. The consultant will propose the office rental cost as part of Out of Pocket Expenses (reimbursable expenses) section of financial proposal. All required furniture, hardware, software, internet/phone connections, office stationary etc shall be provided by the PMC. The cost associated to this provision should

be included in the financial proposal, as part of non-competitive component. In addition, the PMC will have to carry out workshop or training activities to support project implementation. The direct costs of these activities (e.g. logistical costs and workshop materials) will be financed by provisional sum budget allocation on an 'at-cost' reimbursable basis. The consulting firm's costs in arranging those activities (e.g. administrative costs in organizing and managing workshops, and participation of firm's experts in workshops) must be included in the firm's competitive financial proposal.

ANNEX 1: OVERALL PROJECT IMPLEMENTATION PLAN

[illegible]

Outputs and Activities		2019				2020				2021				2022			
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
B.2	Reconstruction Gumbasa (primary, secondary, tertiary) including liquefaction counter measures (deep well, parallel drain and others) middle stream - 2,500 ha																
1	Consultant recruitment																
2	Technical works: Development of DED and preparation of Subproject Summary Report (SSR) by Engineer team of L3455 project																
3	Social and environment safeguards activities by Engineer team of L3455 project																
4	Procurement of Works																
5	Construction (including mobilization and commissioning)																
B.3	Reconstruction Gumbasa (primary, secondary, tertiary) including liquefaction counter measures (deep well, parallel drain and others) downstream - 2,000 ha																
1	Consultant recruitment																
2	Technical works: Development of DED and preparation of Subproject Summary Report (SSR) by Engineer team of L3455 project																
3	Social and environment safeguards activities by Engineer team of L3455 project																
4	Procurement of Works																
5	Construction (including mobilization and commissioning)																
C	Upgrading/Construction of Raw Water Supply System of WUNO, PASIGALA, and PANEKI																
1	Consultant recruitment																
2	Technical works: Development of DED and preparation of Subproject Summary Report (SSR) by Engineer team of L3455 project																
3	Social and environment safeguards activities by Engineer team of L3455 project																
4	Procurement of Works																
5	Construction (including mobilization and commissioning)																
D	Procurement of Hydrometeorological and Telemetry equipment																
1	Technical review and preparation of specifications																
2	Procurement of Goods																
3	Installation (including mobilization and commissioning)																
E	Engineering and Management Consultant BWSS III (DGWR) and DGHS																
1	Consultant recruitment																
2	Consulting service delivery																
F	Project Management, PMU, DGWR																
1	Consultant recruitment																
2	Consulting service delivery																

BWSS III = Regional River Basin Organization Sulawesi III, DED = Detailed Engineering Design, DGHS = Directorate General of Human Settlements, DGWR = Directorate General of Water Resources, PMU = Project Management Unit, SSR = Subproject Summary Report, UKL-UPL = Environmental Monitoring Planning & Management, IAIN = State Islamic University, WTP = Water Treatment Plant.

ANNEX 2: OUTLINE QUARTERLY PROGRESS REPORT

All information will be provided for quarter preceding issuance of report.

Section A: Implementation Progress

1. General data on progress in implementation
2. Problems encountered and resolved
3. Other issues pending
4. Other information or data relevant for project
5. Safeguard compliance on projects
6. GAP implementation progress
7. Risk mitigating action plan implementation progress
8. Updated implementation progress

Section B: Procurement Information

1. Detailed report on procurement activities
 - a. Status of bidding documents
 - b. Status of bids in progress
 - c. Contracts awarded
 - d. Contracts closed
 - e. Contracts with issues
2. Procurement plan for next quarter (or updated procurement plan spreadsheet)

Section C: Financial Information

1. Disbursement status
2. Special account status
3. Loan and Grant commitments
4. Contract payments
5. Status of audits
6. Other financial management issues

Section D: Other Information

1. Major/minor change in scope
 - a. Cost escalations
 - b. Revision in cost category
 - c. Change in implementation procedures
2. Major activities planned for next quarter

Attachments:

1. **PPR:** The quarterly report will be accompanied by an updated Project Performance Review (PPR) spreadsheet comprising (i) updated project implementation plan, (ii) contract awards and disbursement graphs and (iii) contract awards and disbursement plan.
2. **GAP:** GAP monitoring will accompany the quarterly report and provide information on progress achieved to meet each target identified in the GAP.
3. **Stakeholder Communication Strategy:** At EARR inception, the government and ADB will agree on a strategy and action plan to disseminate information on the EARR's objective, outcome, and outputs. The quarterly report will provide details on activities and progress towards EARR outcome