INTEGRATED SAFEGUARDS DATA SHEET APPRAISAL STAGE

Report No.: ISDSA8281

Date ISDS Prepared/Updated: 10-May-2014

Date ISDS Approved/Disclosed: 20-May-2014

I. BASIC INFORMATION

1. Basic Project Data

Country:	Philip	opines	Project ID:	P145391	l	
Project Name:	Studi	es for Sustainable Flood I	Mgmt. (P145391)		
Task Team	Joop	Stoutjesdijk				
Leader:						
Estimated	15-A	pr-2014	Estimated	31-Dec-2	2015	
Appraisal Date:			Board Date:			
Managing Unit:	EASI	PS	Lending	Specific	Investment Lo	oan
			Instrument:			
Sector(s):	Flood	l protection (100%)				
Theme(s):	Wate	r resource management (7	70%), Natural di	saster man	agement (30%)
Is this project p	ocess	sed under OP 8.50 (En	nergency Reco	very) or	OP No	
8.00 (Rapid Res	ponse	to Crises and Emerge	encies)?	•		
Financing (In US	SD M	(illion)				
Total Project Cos	t:	7.00	Total Bank Fir	nancing:	0.00	
Financing Gap:		0.00				
Financing Sou	rce					Amount
Borrower						0.00
Philippines - Fr	ee-sta	nding Trust Fund Program	m			7.00
Total						7.00
Environmental	A - F	ull Assessment				
Category:						
Is this a	No					
Repeater						
project?						

2. Project Development Objective(s)

The proposed development objective is to prepare priority projects that aim to improve flood management and resilience in the Greater Metro Manila Area.

3. Project Description

The recently approved Metro Manila Flood Management Master Plan proposes a large program of priority infrastructure to safely manage and control major flood events in the Greater Metro Manila

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Area that comprises Metro Manila and Laguna de Bay and its shore areas. Among the main largescale priority interventions that have been identified in the Master Plan are: (i) a high dam in the upper Marikina River catchment area to reduce the peak flows entering the city during typhoon and other extreme rainfall events; (ii) flood protection works in the Marikina River, upstream of the proposed Phase IV of the Pasig-Marikina River Channel Improvement Program; (iii) land raising or another similar development along the western shore of Laguna de Bay to protect the population against high water levels in the lake (as the designed solution will most likely involve land raising, as also proposed in the Master Plan, this is referred to in the rest of the text, although there is still a possibility that a more preferred option is selected at the feasibility stage under this project); and (iv) further development of a comprehensive flood forecasting system and monitoring and early warning system for the Greater Metro Manila Area, with maximum participation of local communities.

The Government of the Philippines (GoP) intends to start the implementation of the Master Plan with substantial investments as soon as possible. It is therefore necessary to prepare some of the large high priority investments, both structural and non-structural, as well as develop improved institutional arrangements for flood management. Such investments will be essential to make substantial improvements to flood management in large parts of the Greater Metro Manila Area.

This project will finance two components, the main one related to the carrying out of feasibility and design studies and preparation of tender documents of priority infrastructure that, when implemented, will lead to substantially increased safety of the population during flood events. A small second component relates to project management and administration.

Component A – Preparation of feasibility and design studies for priority flood management infrastructure. Feasibility and design studies will be prepared for: (i) a high dam in the upper Marikina River catchment area; and (ii) land raising along the western shore of Laguna de Bay (in parallel a US\$3 million PHRD grant will finance the preparation of the other major interventions mentioned above). Multi-disciplinary teams of consultants, including expertise in civil engineering, dam engineering, resettlement, hydrology, economics, social science, environment, urban renewal, etc., will be recruited to prepare detailed feasibility and design studies for the above mentioned proposed interventions. The feasibility studies will review, as needed, the various options for flood management improvements in the study areas, including a quick assessment of related social and resettlement impacts in terms of magnitude, costs, and risks, to be followed immediately by design studies and preparation of tender documents of the selected option. The design phase will include the technical and engineering studies, economic studies, and social and environmental studies, all in compliance with the relevant World Bank Operational and Safeguard Policies and government requirements, and up to a level ready for appraisal/financing by the government, possibly with the assistance of international organizations such as the World Bank and JICA. It is envisaged that separate consulting firms will be hired for the technical studies for the dam and for the Laguna de Bay land raising. One consulting firm/institute will be hired for the social and environmental assessments related to both interventions, including the social surveys that will target the communities that are affected by the potential projects. Social surveys will be conducted with active involvement of the communities themselves. NGOs could be hired to carry out the dialogue with the people that live in the high-risk areas. A Panel of Experts on Dams will be established as per OP on Dam Safety.

Component B – Project management and administration. Operational expenses for the Department of Public Works and Highways (DPWH) will be financed to manage the implementation of the grant and monitor the consultants and the outputs of the services. Fixed costs, such as staff costs, will be

paid for by DPWH. The government's Commission on Audit (COA) will conduct the annual audit of the grant.

4. Project location and salient physical characteristics relevant to the safeguard analysis (if known)

The project location is the Greater Metro Manila Area, in particular a dam site in the upper catchment area of the Marikina River and the western shore of Laguna de Bay.

5. Environmental and Social Safeguards Specialists

Maya Gabriela Q. Villaluz (EASPS)

Victoria Florian S. Lazaro (EASPS)

6. Safeguard Policies	Triggered?	Explanation (Optional)				
Environmental Assessment OP/ BP 4.01	Yes	While the project only supports the preparation of engineering designs of two priority investments identified in the Metro Manila Flood Management Master Plan, i.e. a high dam in the upper Marikina River catchment area and the raising of low-lying areas along the western shores of Laguna de Bay, and the conduct of environmental and social assessments for these priority investments, including resettlement studies, the policy is triggered since these studies are expected to lead to investments expected to have positive but also potentially adverse environmental and social impacts, including resettlement of mostly informal settlers, if not managed adequately. Part of this project is the conduct of environmental and social assessments and resettlement (rehousing) studies to precisely assess impacts and put forward options and mitigation measures to be considered in the engineering designs of the proposed two main investments. The environmental and social assessments will be carried out by DPWH with technical assistance and support from qualified consultants to ensure that the Bank's and the National Government's environmental and social safeguard policies are being followed and complied with. The environmental and social impact assessments (ESIA, one for the dam and another one for the Laguna de Bay land raising) will carefully assess the environment and social impacts of the priority investments, including impacts from ancillary facilities as well as cumulative impacts, and lay out detailed plans for				

		mitigation in the Environmental and Social Management Plan (ESMP), including a monitoring and reporting program. An institutional assessment and capacity building plan for DPWH's Environmental and Social Safeguards Division (ESSD) will be prepared as well. The ESMP will be properly costed to ensure that the costs to fully implement it get incorporated into any future civil works contract. The various options in terms of sites, alignments, resettlement (rehousing) will also be analyzed as part of the ESIA.
		A Grievance Redress Mechanism will be developed and be detailed in the ESMP and be presented to the communities during public consultations.
Natural Habitats OP/BP 4.04	Yes	The ESIA will identify natural habitats and other ecologically sensitive areas that may be affected by the priority investments. The project will not support activities that would significantly convert or degrade critical natural habitats consistent with the policy. If the ESIA indicates that a project would significantly convert or degrade non- critical natural habitats, the project would include acceptable mitigation measures in the ESMP. Such mitigation measures could include, as appropriate, minimizing habitat loss (e.g. strategic habitat retention and post-development restoration) and establishing and maintaining an ecologically similar protected area.
Forests OP/BP 4.36	Yes	The ESIA will confirm the project impacts on forests and forest-dependent communities, particularly in and around the proposed dam site. As needed, the ESMP will include measures to address impacts on forests, forest health, and forest-dependent communities.
Pest Management OP 4.09	No	The project will not support directly or indirectly any investments that would trigger the policy.
Physical Cultural Resources OP/ BP 4.11	Yes	The ESIA will closely assess the various alternative technical options to determine any possible cause of disturbance and negative impacts to historical areas, architectural land marks, and other cultural property, which may need to be mitigated. During construction, the landscape of the sites may also be affected and

		structural damage to old structures may occur due to vibrations and excavation of adjacent areas. The ESIA will confirm impacts of priority investments on physical cultural resources (PCR), and where needed a PCR management plan will be formulated as part of the ESMP, including chance find procedures that will be followed during construction.
Indigenous Peoples OP/BP 4.10	Yes	The whole of Metro Manila does not have ancestral domains and/or Indigenous Peoples (IP) communities. However, a study done in early 2000s for another project found that there are IP communities in the upland areas of 8 LGUs of Rizal Province. Initial investigations have shown that there are no settlements in and around the proposed reservoir area of the Marikina Dam. The area is, however, part of the ancestral domain of the indigenous Dumagat-Remontados people.
		The five cities/municipalities where land raising is expected to be done do not have IP communities. These are Taguig, Paranaque, Pateros, Muntinlupa, and Pasig.
		Further screening of this will be carried out by the social and environment consultants early on during the implementation of the studies and if the screening confirms their presence in and around the proposed reservoir area, and area for land raising along the western shore of Laguna de Bay, social assessment to comply with the policy will be incorporated in the ESIA and an indigenous peoples (IP) Framework and/or IP Plan will be developed, as needed.
Involuntary Resettlement OP/BP 4.12	Yes	The Master Plan has indicated that thousands of families, both formal and informal, are living along the western shore of Laguna de Bay. It is not expected that people live in the possible reservoir area of the dam. The priority investments may cause both temporary and permanent physical and economic displacement of people occupying the flood plain of the lake.
		A Resettlement Policy Framework (RPF) and/or Resettlement Action Plan (RAP) will be prepared. The RPF and/or RAP will be guided by a series of rehousing studies that are currently under

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		preparation. The RPF and/or RAP will assess
		various alternatives/options that will have the
		least impacts on people living in danger flood
		zones and factor these findings in the engineering
		designs. In addition, impacts to potentially
		affected persons and planning for mitigation of
		the same to their housing and livelihood
		conditions are important aspects of the studies to
		be made. The outcomes of these studies will
		influence the decision on the final configuration
		of the investments, including alignments.
		Resettlement action plans, where needed, will
		thus be prepared together with the preparation of
		the detailed engineering design of the
		infrastructure to be built as soon as the final sites
		for the priority investments are known.
		The RPF or RAP will provide a sufficiently
		detailed analysis of the resettlement/rehousing
		impacts, social impacts, and the institutional
		aspects in order to be able to provide detailed
		recommendations on how these should be taken
		into account during implementation. Particular
		attention will be given to the key institutions and
		different government entities involved in the
		resettlement/rehousing. Interventions may
		include institutional strengthening activities,
		development of Peoples Plans, and the possible
		implementation of a rental voucher scheme. The
		terms of reference (ToR) for the preparation of
		the RPF or RAP will be cleared by the Regional
		Safeguard Adviser (RSA) prior to their beginning.
		An independent Panel of Experts will be
		established to oversee inter alia the preparation of
		the RPF and/or RAP and provide guidance, where
		needed. The Panel will include expertise in
		social, resettlement, and urban planning and
		development. This Panel is different from the
		Panel of Experts on Dams (see below).
		Identification of potentially linked activities/
		projects such as those implemented by DPWH,
		Metro Manila Development Authority and LGUs
		will also be carried out at the beginning of project
		preparation and if it is established that some of
		the activities and projects are related, the
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		preparation of appropriate safeguards instrument
		will be discussed with the counterparts. The
		identification of linked activities/projects will be
		done as one of the first activities in the ESIA and
		will be carried out by the consultants, in
		cooperation with government counterparts, the
		Bank's task team supported by the regional
		safeguards adviser, and the Panel of Experts.
Safety of Dams OP/BP 4.37	Yes	Since the project will entail the design of a high
		dam as one of its priority investments, this policy
		is triggered. OP 4.37 requires that experienced
		and competent professionals design and supervise
		construction, and that the borrower adopts and
		implements dam safety measures through the
		project cycle. A Panel of Experts on Dams with
		the needed technical expertise will be established
		by the time the studies start.
Projects on International	No	There will be no sub-projects in international
Waterways OP/BP 7.50		waterways.
Projects in Disputed Areas OP/BP	No	There will be no sub-projects in disputed areas.
7.60		

II. Key Safeguard Policy Issues and Their Management

A. Summary of Key Safeguard Issues

1. Describe any safeguard issues and impacts associated with the proposed project. Identify and describe any potential large scale, significant and/or irreversible impacts:

The project itself is meant to produce design studies. While by itself the project is not expected to have social and environmental impacts, the studies will identify impacts related to future construction of the design interventions and incorporate mitigating measures in ESMPs and the design of the civil works. The future implementation of the identified priority projects may cause temporary and/or permanent displacement of people especially along the western shores of Laguna de Bay. It may also affect the Remontados in the uplands of Antipolo City and Rodriguez Rizal. These issues will have to be carefully taken into account already during the preparation of the studies.

2. Describe any potential indirect and/or long term impacts due to anticipated future activities in the project area:

Improved flood management in the Greater Metro Manila Area is the anticipated result of expected future activities. This will help improve the quality of life and socio-economic wellbeing of communities that currently are perennially subjected to flooding as well as the overall environmental quality in the Greater Metro Manila Area. The implementation of the proposals for the Laguna de Bay flood plain would cause temporary displacement of up to 50,000 households, many of whom are now informally residing along the western shores of Laguna de Bay. The Bank is studying various forms of support for such people, such as voucher schemes. The results of these studies will form an important input into the project activities.

3. Describe any project alternatives (if relevant) considered to help avoid or minimize adverse impacts.

An analysis of alternatives, in terms of type of civil works and locations, was carried out as part of the master plan preparation. A more detailed analysis will be carried out early on during the implementation of this project to determine in detail which of the infrastructure investments will have the least environmental and social impacts. The selected option will then be worked out up to design level, including tender documents.

4. Describe measures taken by the borrower to address safeguard policy issues. Provide an assessment of borrower capacity to plan and implement the measures described.

DPWH is familiar with the Bank Safeguards Policies. It has an Environment and Social Safeguards Division, primarily dedicated to the environmental and social impact management of their different projects. It maintains separate sets of safeguard standards depending on the funding source of the project it implements. The performance of ESSD, based on the recent World Bank thematic review for the Philippines, points to the need of putting in place a capacity building program if it is to be in charge of handling safeguard issues during the future implementation of the designs prepared under this project. ESSD will benefit by strengthening its capacity to manage and coordinate the safeguards principles and procedures especially related to the preparation of the environmental and social assessment studies and for resettlement/rehousing of affected communities living in the flood plain of Laguna de Bay. The consultants that will prepare the ESIA, ESMP, and RAP, as needed, will work closely with ESSD during the preparation of the studies.

An independent Panel of Experts will be established to provide overall advice and guidance during the implementation of the studies and endorse key proposals and to oversee the implementation of the social and resettlement studies and how they integrate with the technical studies. The Panel will include expertise in social, resettlement, and urban planning and development. A Panel of Experts on Dams will be established as per OP on Dam Safety.

5. Identify the key stakeholders and describe the mechanisms for consultation and disclosure on safeguard policies, with an emphasis on potentially affected people.

The key stakeholders of the project are the people that live in high risk areas along the western shore of Laguna de Bay and local officials of the five impacted Local Government Units (LGU). There will be extensive formal (through workshops) and informal consultations with the affected communities, non-governmental organizations (NGO) and civil society organizations (CSO) that work with these communities, LGUs, government agencies, etc. to ensure that the social aspects and rehousing/resettlement proposals will be understood and acceptable to all parties. The Bank task team in close cooperation with DPWH and other agencies will implement an information campaign that emphasizes expectations and transparency.

B. Disclosure Requirements

Environmental Assessment/Audit/Management Plan/Other			
Date of receipt by the Bank29-Feb-2016			
Date of submission to InfoShop31-Mar-2016			
For category A projects, date of distributing the Executive31-Mar-2016Summary of the EA to the Executive Directors31-Mar-2016			

"In country" I	Disclosure	
Philippines		31-Mar-2016
<i>Comments:</i> The safeguard instruments will be prepared as part of the project, during the preparation of the studies to be funded under the project. Thus safeguard instru cannot be disclosed prior to appraisal.		
Resettlemen	t Action Plan/Framework/Policy Process	
Date of rece	ipt by the Bank	29-Feb-2016
Date of subr	nission to InfoShop	31-Mar-2016
"In country" I	Disclosure	
Philippines		31-Mar-2016
Comments:		
Indigenous	Peoples Development Plan/Framework	
Date of rece	ipt by the Bank	29-Feb-2016
Date of subr	nission to InfoShop	31-Mar-2016
"In country" I	Disclosure	
Philippines	Philippines 31-Mar-2016	
Comments:		
If the project	triggers the Pest Management and/or Phys	ical Cultural Resources policies, the

If the project triggers the Pest Management and/or Physical Cultural Resources policies, the respective issues are to be addressed and disclosed as part of the Environmental Assessment/Audit/or EMP.

If in-country disclosure of any of the above documents is not expected, please explain why:

C. Compliance Monitoring Indica	tors at the Corporate Level
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OP/BP/GP 4.01 - Environment Assessment		
Does the project require a stand-alone EA (including EMP) report?	Yes [×] No []	NA []
If yes, then did the Regional Environment Unit or Sector Manager (SM) review and approve the EA report?	Yes [] No []	NA [×]
Are the cost and the accountabilities for the EMP incorporated in the credit/loan?	Yes [×] No []	NA []
OP/BP 4.04 - Natural Habitats		
Would the project result in any significant conversion or degradation of critical natural habitats?	Yes [] No [×]	NA []
If the project would result in significant conversion or degradation of other (non-critical) natural habitats, does the project include mitigation measures acceptable to the Bank?	Yes [] No []	NA [×]
OP/BP 4.11 - Physical Cultural Resources	•	
Does the EA include adequate measures related to cultural property?	Yes [] No []	NA [×]
Does the credit/loan incorporate mechanisms to mitigate the potential adverse impacts on cultural property?	Yes [] No []	NA [×]

OP/BP 4.10 - Indigenous Peoples					
Has a separate Indigenous Peoples Plan/Planning Framework (as appropriate) been prepared in consultation with affected Indigenous Peoples?	Yes []	No []	NA [×]
OP/BP 4.12 - Involuntary Resettlement					
Has a resettlement plan/abbreviated plan/policy framework/ process framework (as appropriate) been prepared?	Yes []	No []	NA [×]
If yes, then did the Regional unit responsible for safeguards or Sector Manager review the plan?	Yes []	No []	NA []
OP/BP 4.36 - Forests					
Has the sector-wide analysis of policy and institutional issues and constraints been carried out?	Yes []	No []	NA [×]
Does the project design include satisfactory measures to overcome these constraints?	Yes []	No []	NA [×]
Does the project finance commercial harvesting, and if so, does it include provisions for certification system?	Yes []	No []	NA [×]
OP/BP 4.37 - Safety of Dams					
Have dam safety plans been prepared?	Yes []	No []	NA [\times]
Have the TORs as well as composition for the independent Panel of Experts (POE) been reviewed and approved by the Bank?	Yes []	No []	NA [×]
Has an Emergency Preparedness Plan (EPP) been prepared and arrangements been made for public awareness and training?	Yes []	No []	NA [×]
The World Bank Policy on Disclosure of Information	1				
Have relevant safeguard policies documents been sent to the World Bank's Infoshop?	Yes []	No []	NA [\times]
Have relevant documents been disclosed in-country in a public place in a form and language that are understandable and accessible to project-affected groups and local NGOs?	Yes []	No []	NA [×]
All Safeguard Policies					
Have satisfactory calendar, budget and clear institutional responsibilities been prepared for the implementation of measures related to safeguard policies?	Yes []	No []	NA [×]
Have costs related to safeguard policy measures been included in the project cost?	Yes []	No []	NA [\times]
Does the Monitoring and Evaluation system of the project include the monitoring of safeguard impacts and measures related to safeguard policies?	Yes [>	<]	No []	NA []
Have satisfactory implementation arrangements been agreed with the borrower and the same been adequately reflected in the project legal documents?	Yes [>	<]	No []	NA []

III. APPROVALS

Task Team Leader:	Name: Joop Stoutjesdijk

Approved By		
Regional Safeguards Advisor:	Name: Peter Leonard (RSA)	Date: 19-May-2014
Sector Manager:	Name: Ousmane Dione (SM)	Date: 20-May-2014