

Environmental and Social Data Sheet

Overview

Project Name:	Bakheng Water Supply Project
Project Number:	2017-0965
Country:	Cambodia
Project Description:	Construction of Bakheng Water Treatment Plant (WTP), in the northern outskirts of Phnom Penh. The intake will be located on the west bank of the Mekong River.
EIA required:	yes
Project included in Carbon Footprint Exercise ¹ :	no

Environmental and Social Assessment

Environmental Assessment

The project consists of the construction of Bakheng Water Treatment Plant (WTP), in the northern outskirts of Phnom Penh. The Bakheng Water Supply Project is part of Phnom Penh Water Supply Authority (PPWSA) Third Master Plan for the period 2016-2030, which aims at meeting the increased demand for urban water supply in the Phnom Penh area.

The project includes the following main components; (i) Raw Water intake at the Mekong River, (ii) Transmission main, (iii) Water treatment plant Stage 1 (195,000 m³/d), (iv) Treated water transmission main and (v) Strengthening the primary and secondary distribution networks within Phnom Penh.

The PPWSA has prepared the ESIA for consideration of the Ministry of Environment and approval (competent authority), following the Sub-decree 72 ANKr.BK of 11 August 1999. The study is already complete and is waiting the competent authority's approval. As part of the ESIA, an Environmental and Social Management Plan will be produced to the satisfaction of the MoE, PPWSA and the cofinanciers.

During the development of the Environmental and Social Impact Assessment, the following risks were identified:

¹ Only projects that meet the scope of the Pilot Exercise, as defined in the EIB draft Carbon Footprint Methodologies, are included, provided estimated emissions exceed the methodology thresholds: above 100,000 tons CO₂e/year absolute (gross) or 20,000 tons CO₂e/year relative (net) – both increases and savings.

Luxembourg, 30 August 2018

Construction Phase

The main activities associated with the implementation of the project will be the construction of the water intake, a primary transmission line for raw water, the water treatment plant, transmission mains, including crossing of the Tonle Sap River and distribution pipes. Site selection was carefully carried out in order to avoid any impacts to protected areas and Habitats.

For the majority of the works, classical design and construction techniques are expected to be applicable.

The main impacts identified for the Construction Phase under the ESIA included : (i) impacts on the river courses and the water quality during the construction of the water intake; (ii) management of soil disposal due to the excavation works; and (iii) management of sites temporarily used for construction activities, including borrow areas, construction camps, etc., and rehabilitation of the sites after completion of the temporary use.

Operational Phase

During the operational phase, the main impact will be the sludge production and disposal. The final disposal of the sludge from the water treatment will require a specific assessment and strategy in line with EIB's E&S standards.

Appropriate mitigation and monitoring measures will be included in the ESMP.

The project's contribution to climate action –mitigation and adaptation- is estimated at about 4.9% of the loan. It is based on the energy efficiency components and adaptation measures such as the elevation of the water treatment plant platform and better ventilation in order to adapt to higher temperatures.

Social Assessment

The project will have short and long term positive social impacts in terms of enhancing water security, access to water, creating economic opportunities (during works and after) and indirectly contributing to the sustainable economic growth of the beneficiary countries.

No involuntary resettlement is foreseen, as all the land required for the delivery of the project is already owned by the Promoter or developed in public roads.

Social impacts of the project include the disruption to services, noise, temporary occupation of public or private space, traffic disruptions and safety hazards.

The Government of Cambodia has ratified all 8 ILO fundamental conventions and the Promoter shows awareness and compliance with health and safety regulations.

Public Consultation and Stakeholder Engagement

Stakeholders were involved in the development of the ESIA, through consultations during 2017 and 2018 with the communities, affected persons and institutional stakeholders.

Luxembourg, 30 August 2018

Conclusions and Recommendations

The project contributes towards the fulfilment of SDGs, particularly SDG 6 on “Clean water and sanitation”, but also SDG 1 on “Poverty Reduction”, SDG 5 on “Achieve gender equality and empower all women and girls” and SDG 11 on “Sustainable cities and communities”. Overall the project has a positive net social and environment benefits.

An Environmental and Social Impact Assessment (ESIA) has been prepared for the project and is under assessment by the MoE in Cambodia. The study concludes that there are no significant or irreversible environmental impacts envisaged as a result of the project interventions.

The impacts are largely construction related and can be addressed through adoption of good engineering practices and appropriate mitigation measures during project implementation.

The translation of the ESIA is awaited for final assessment to the satisfaction of the Bank.

Taking into consideration the conditions and undertakings below, the project is considered acceptable for Bank financing from an environmental and social perspective.

Disbursement conditions

Prior to disbursement:

- The promoter shall submit the full ESIA (including all relevant annexes), to the satisfaction of the Bank, completed and approved by the relevant competent authority. The Promoter shall send the NTS of the ESIA and the ESIA to the EIB for publication on its website.
- The promoter shall finalise the Environmental and Social Management Plan (ESMP) including monitoring obligations to the satisfaction of the Bank.
- The promoter shall elaborate a sludge management strategy to the satisfaction of the Bank.

Undertakings

- The promoter shall comply with the applicable laws, ILO labour standards and international best practices and relevant contracts financed under the Project shall include specific clauses on these undertakings;
- The Promoter shall ensure that the Project (including all works performed by the contractors) is carried out in accordance with the provisions contained in the ESIA documents and the ESMP.
- The Promoter will report to the Bank on the status of project implementation and compliance with ESMP (including on the implementation of relevant E&S specific plans) every six months until completion of the project.