

Resettlement Due Diligence Report

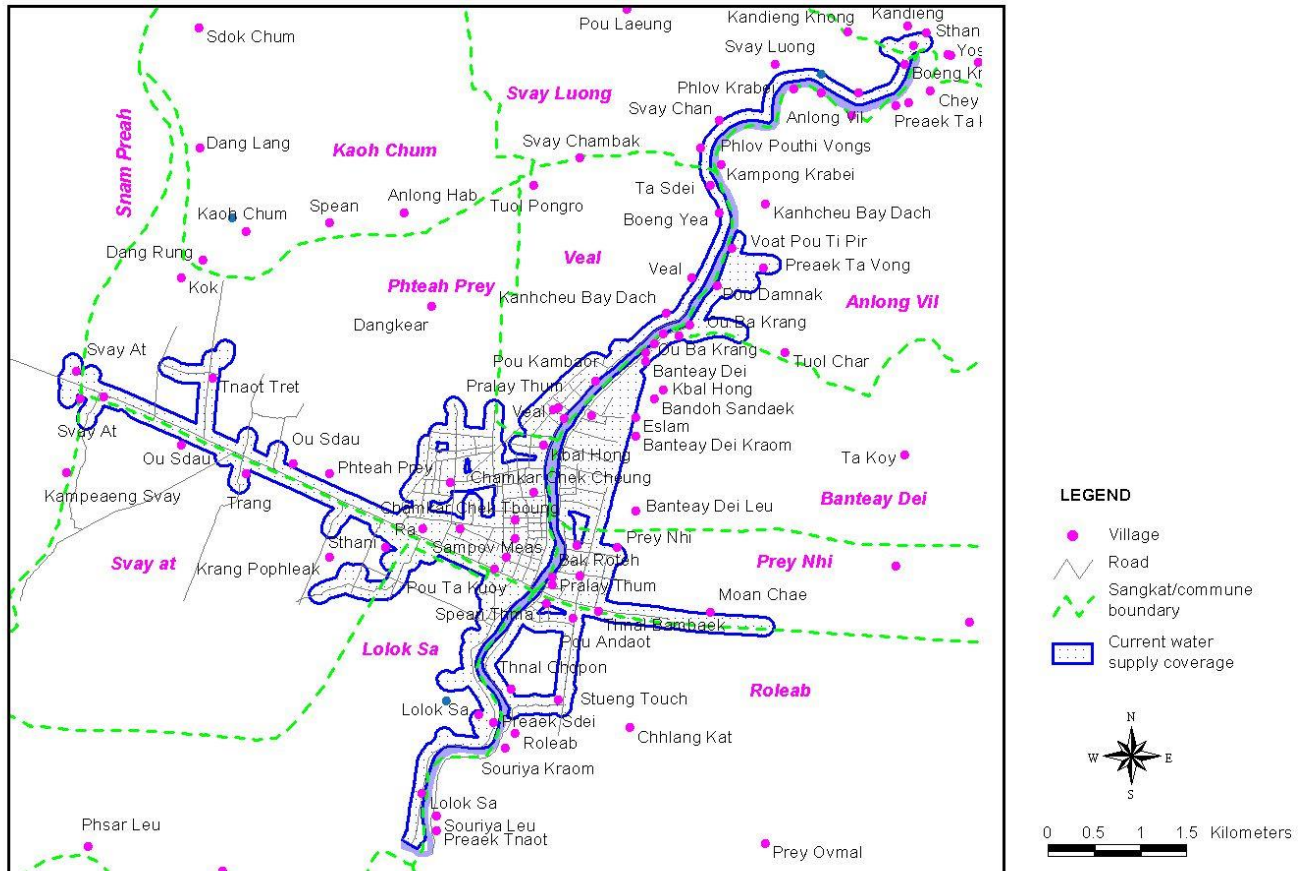
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CAM: Urban Water Supply Project – Pursat Subproject

Prepared by the Ministry of Industry and Handicraft for the Asian Development Bank.

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CURRENT AND PROPOSED WATER SUPPLY COVERAGE OF PURSAT PROVINCE



ACRONYMS AND ABBREVIATIONS

ADB	-	Asian Development Bank
EA	-	Executing Agency
EM	-	Ethnic Minority
ha	-	hectare
IPs	-	Indigenous Peoples
JICA	-	Japan International Cooperation Agency
km	-	kilometer
m	-	meter
mm	-	millimeter
para	-	paragraph
PIACs	-	Project Implementation Consultants
PIU	-	Project Implementation Unit
PMU	-	Project Management Unit
Project	-	Urban Water Supply and Sanitation Project
PSMO	-	PMU Safeguards Management Officer
RGC	-	Royal Government of Cambodia
UWSP	-	Urban Water Supply Project
WTP	-	Water Treatment Plant

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I. INTRODUCTION

A. Overview

1. The Urban Water Supply Project (UWSP, or the Project) in Pursat Province is among the nine (9) subprojects being proposed for the improvement and expansion of urban water supply services in selected provincial towns¹ in Cambodia. The existing water supply system was commissioned in 2006 through the Asian Development Bank's (ADB) Provincial Towns Improvement Project, with a designed capacity of 5,760 m³/day. The existing water treatment plant (WTP) occupies a total area of 1.07 ha and is seen at Road № 1 in Portakouy Village, *Sangkat* Lolorksor. The water supply system falls short of its designed capacity by producing only 4,500 m³/day, and serves a total area of 90 km² in Pursat City, the Province's capital.

B. Current Status

2. The Waterworks in Pursat operates for 22 hours daily and is fed by two intake pumps from Pursat stream. The 1.07 ha WTP site in Portakouy Village hosts the following 17 concrete structures: (a) billing and collection, (b) chemical building, (c) distribution pump, (d) storage tank, (e) flocculation, (f) generator house, (g) distribution tank, (h) chlorination building, (i) storage, (j) garage, (k) deputy director office and network station, (l) clear water storage, (m) workshop, (n) laboratory, (o) administration office, (p) elevated tank, and (q) water intake.

3. Pursat City is subdivided into three (3) districts with 11 *sangkats* and communes, and 71 villages. The City is home to a population of more than 50,000 (10,301 households). 5,915 (57.4%) of these households are connected to the water system, which is underutilized at only 60% of its designed capacity².

C. Rationale for Due Diligence

4. A short feasibility study has been prepared for Pursat UWSP, with the eight (8) infrastructure components provided mainly for mechanical improvements in the water system. Although most of the subproject activities will be undertaken inside the existing Waterworks compound, each component was examined to determine their social impacts, including any need for involuntary land acquisition. Subprojects with involuntary resettlement and land acquisition impacts require preparation of a Land Acquisition and Resettlement Plan (LARP), consistent with the requirements of Safeguard Requirements 2 (SR2) of ADB's 2009 Safeguard Policy Statement (SPS), and the Bank's OM Section F1/OP (January 2010). An Indigenous Peoples (IPs) or an Ethnic Minority (EM) Development Plan (SR3) is not required since the subproject will not displace people known from any tribal group or ethnic minority, as findings of the PPTA socioeconomic study indicate that the subproject will not have impacts on indigenous peoples or ethnic minorities.

II. PROPOSED SUBPROJECT INVESTMENT

5. The key issues to be addressed by the Project in Pursat include the need to: (i) increase the efficiency of the water system; (ii) increase the pressure of water served to customers; (iii) provide more storage for security of supply; (iv) improve the chlorination system; and, (v) simplify Waterworks operation and maintenance. To address these issues, the eight (8) infrastructure components³ to be provided under UWSP are as follows:

- (a) Installation of one (1) 300 KVA transformer.

¹ The other provincial towns are Kampong Cham, Kampot, Sihanoukville, Kampong Thom, Siem Reap, Stoung, Svay Rieng and Stung Treng.

² The causes of this underutilization are discussed in a separate section of the Project Preparatory Technical Assistance (PPTA) Draft Final Report

³ The list of proposed infrastructure is based on Version 14 prepared by the PPTA Consultants.

- (b) Replacement of two (2) raw water pumps with submersible pumps.
- (c) Provision of a new 500 mm gate valve for upper inlet pipe.
- (d) Provision of two (2) new manual gate valves for inlets and drains.
- (e) Replacement of filter block inlet gate valve (500 mm).
- (f) Installation of 3.0 km parallel HDPE pipe with 160 mm diameter.
- (g) Replacement of old chlorination system.
- (h) Addition of sludge drying bed.

III. APPROACH TO DUE DILIGENCE

6. Social safeguards due diligence for all UWSP subprojects were initiated with the review of: (i) previous studies provided by the Department of Potable Water Supply (DPWS); (ii) the March 2013 PPTA Progress Report; (iii) the report on findings of the team of international and local consultants⁴ in-charge of water supply; and, (iv) the Inception Report⁵ prepared jointly by the international and the local consultants of the PPTA. Chapter 3 of the Inception Report referred to relevant information on the subprojects, such as: (i) their current status, subproject priorities as agreed between the Executing Agency (EA) and ADB, review of Japan International Cooperation Agency's (JICA) current projects and future project funding relevant to water services, and site visits and initial public consultation; (ii) sector analysis; (iii) environmental and social safeguards screening; and, (iv) subproject prioritization. The international and local social safeguards specialists requested the Waterworks office to provide guidance on the location of the proposed infrastructure components. The field validation in Pursat was conducted on 14 August 2013 and photographs were taken as part of the documentation for the due diligence report.

IV. FINDINGS OF THE DUE DILIGENCE

A. Infrastructure Components Inside the Waterworks Compound

7. Apart from the installation of the 3.0 km parallel HDPE pipe with 160 mm diameter, the proposed subproject components shall be carried out inside the Waterworks compound, which has sufficient space to carry out the proposed activities (see photo below). The proposed subproject components will not cause any adverse social impacts and will not require land acquisition.

⁴ This report was prepared by Messrs. Andrew Henricksen (Senior Water Supply Engineer) and Tang Sochettra (Water Supply Engineer) who visited the subproject sites on 22 April – 2 May 2013.

⁵ This refers to the May 2013 final version of the Inception Report.



Above photo shows the WTP compound at Portakouy Village in Pursat City. The man walking towards the office of the PDPWS Director is the representative of DPWS Office in Phnom Penh.

B. The 3.0-km Parallel Distribution Pipeline

8. Installation of the 3.0-km pipeline, with a diameter of 160 mm (6.3 in), will increase the water pressure for households connected to the water system. It will be placed side-by-side and connected with the existing distribution pipe, which has a diameter of 110 mm (4.3 in). Excavation for installation of the pipe shall start at Road № 1 in Kbal Huong Village and terminate at Tasday Village, both of which are within the jurisdiction of Veal Commune (see photos below). Land acquisition is not required for the installation and no household or person shall be displaced, as the work areas for the pipelines are part of the existing road rights-of-way (ROWs). The required working width is narrow, at 0.6 m, and will neither inconvenience pedestrians and motorists nor block peoples' access to the road.

9. If any unanticipated social impacts become apparent during project implementation, (i) the EA will assess the significance of such impacts, (ii) evaluate the options available to address them; (iii) prepare the documents in accordance with ADB's SPS.



The point on which the pedicab stands (left photo) is the starting point of excavation in Kbal Huong Village. The photo at right was taken at Tasday Village and shows the PPTA Consultants, DPWS representative and Pursat Waterworks Director standing at the end point of excavation for the parallel pipe.

V. PROJECT DISCLOSURE AND CONSULTATION

9. Joint subproject disclosure and public consultation was not held during the field validation since most of the infrastructure components shall be carried out inside the Waterworks compound. Consultation with residents of Veal Commune, where the proposed 3.0-km parallel distribution pipeline shall be installed, shall be conducted during subproject implementation, in compliance with the provision of the *Law on Expropriation of 2009* of the Royal Government of Cambodia, and the ADB *Public Communication Policy (2011)* and *Accountability Mechanism Policy (2012)*. The Waterworks Director pointed out that village residents have been clamoring for increased pressure of water supply in their houses, and that such demand denotes their approval of the subproject. During sub-project implementation, however, people along the road will be informed and consulted regarding the construction schedule.

VI. IMPLEMENTATION ARRANGEMENT

A. Institutional Arrangement

10. The Department of Potable Water Supply (DPWS) under the Ministry of Industry and Handicrafts (MIH) is the Project EA. It will establish the Project Management Unit (PMU) to assume overall management and supervision functions for UWSSP. The PMU will hire the services of the Project Implementation Assistance Consultants (PIACs) in accordance with RGC's *Standard Operating Procedures* (updated May 2012). The PMU will be supported by staff from MIH and will include one (1) PMU Safeguards Management Officer⁶ (PSMO) who will be assigned on a full time basis to monitor social safeguards compliance through his/her provincial counterpart. At the subproject level, the management of Pursat Waterworks will establish the Project Implementation Unit (PIU) to work closely with PMU on social safeguards issues and monitoring. One of the PIU personnel will be appointed as counterpart of the PSMO. The PMU, with assistance from PIACs, will prepare and submit quarterly Project progress reports to the EA and ADB. Said progress reports will include discussions on social safeguards monitoring activities and findings.

⁶ The PSMO will cover both Environmental and Social Safeguards for the Project.