



REPUBLIC OF INDONESIA
MINISTRY OF NATIONAL DEVELOPMENT PLANNING/
NATIONAL DEVELOPMENT PLANNING AGENCY

PUBLIC PRIVATE PARTNERSHIP

INFRASTRUCTURE PROJECTS PLAN IN INDONESIA

2022

Wosusokas Regional Water Supply System Phase II

Location : Central Java

Sector : Drinking Water



Sub-Sector : Water Supply System

Description:

Wosusokas Regional Water Supply System provides clean water for the population in Wonogiri Regency, Karanganyar Regency, Sukoharjo Regency, and Surakarta City. The need for clean water will increase due to the growing population in this area. The project will be done in two phases, with phase II to be constructed using the PPP scheme.

Estimated Project Cost: USD 52.41 Million (under review)

Financial Feasibility:

IRR : 14,2%

NPV : USD 28.37 Million (under review)

Estimated Concession Period: 20 years

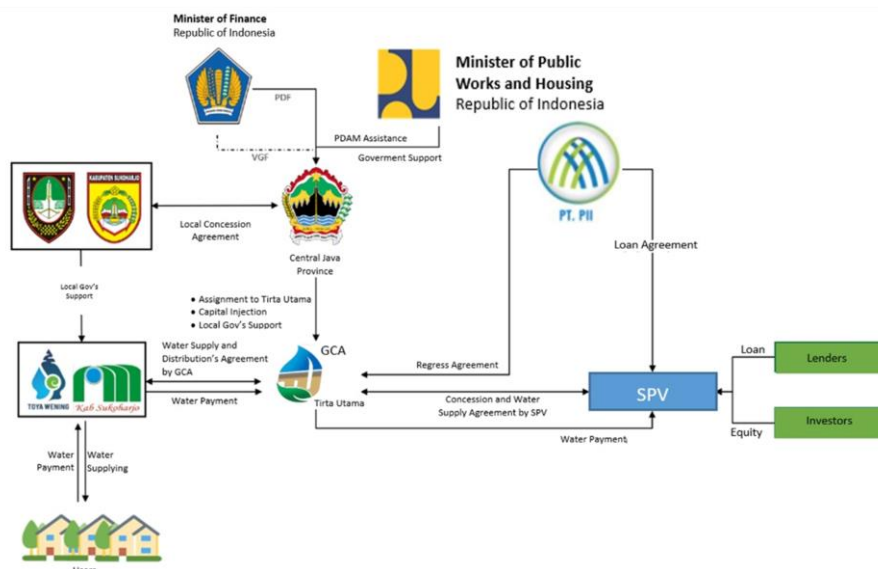
Government Contracting Agency:
Director of PDAB Tirta Utama (Perseroda)
Type of PPP:
Solicited
Return of Investment:
Under review

Indicative Project Schedule



Project Status : Final Business Case

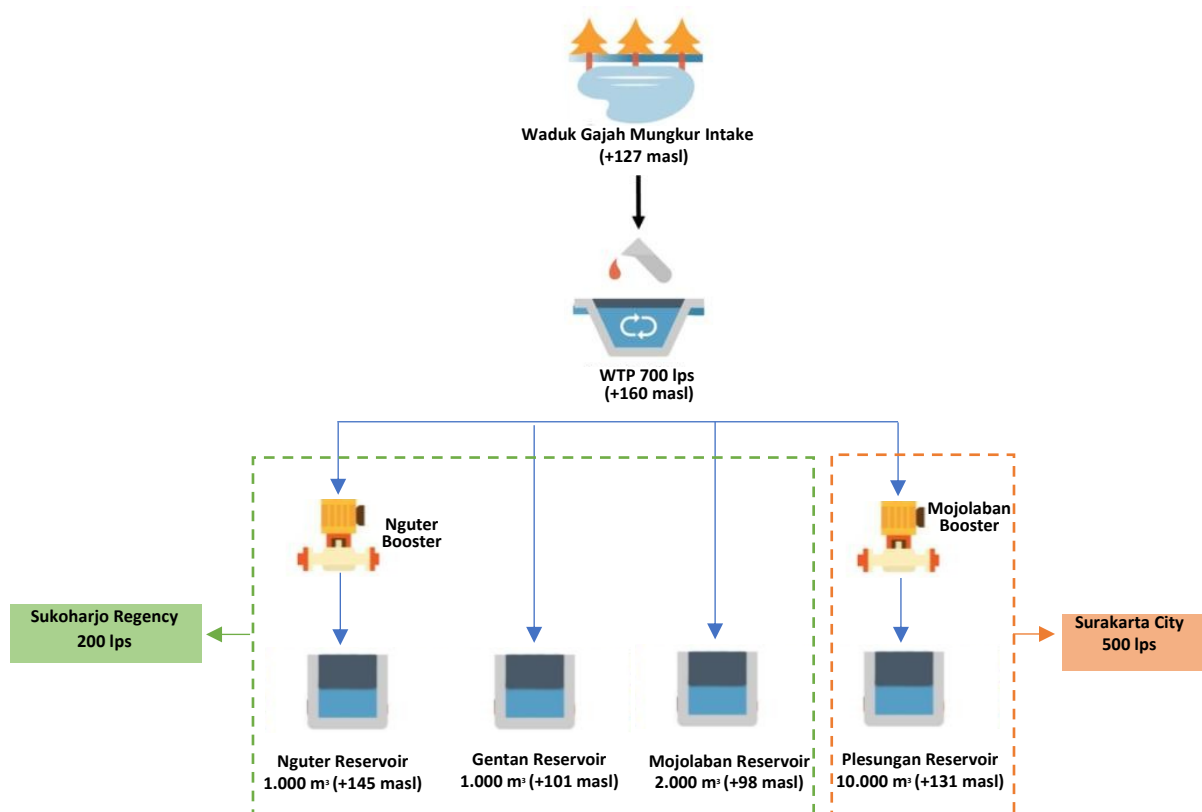
Indicative Project Structure



Project Digest

Project Title	Wosusokas Regional Water Supply System
Government Contracting Agency	Director of PT Tirta Utama (Perseroda)
Implementing Agency	Under review
Preparation Agency	PT PII (PDF assignment by the Ministry of Finance)
Project Cost	USD 52.41 Million (under review)
Estimated Concession Period	20 years
Location	Central Java

1. Project Picture (Map and/or Illustration of Project)



Picture 1 – Wosusokas Regional Water Supply System Structure

2. The Opportunity

2.1. Project Background

Central Java as one of the most populated provinces in Indonesia needs to have a proper water supply system to fulfil the needs of water supply for the community. Wosusokas Regional Water Supply System is one the systems that will cover areas in Wonogiri Regency, Sukoharjo Regency, Karanganyar Regency and Surakarta City. It is estimated that in 20 years, the region will need approximately 9,300 lps of water supplied through its system. Currently, the water production capacity is only 1,757. Wosusokas Water Supply System needs to be upgraded and expanded to fill this gap.

2.2. Project Description

The Wosusokas Regional Water Supply System will consist of the construction of new water intake from Wonogiri Multipurpose Dam, Main Transmission Pipe, Water Treatment Plant, Distribution Units and Customer Connection for nearly 116,000 connections.

It will be separated into two phases. Phase I of the project will construct WTP with the capacity of 750 lps to supply water to 60,000 customer connections, with details as follows:

- a. Wonogiri Regency with 12,000 connections
- b. Sukoharjo Regency with 24,000 connections
- c. Surakarta City with 20,000 connections
- d. Karanganyar Regency with 4,000 connections.

While Phase II will construct WTP with the capacity of 700 lps to supply 56,000 customer connections in Sukoharjo (16,000 connections) and Surakarta (40,000 connections) only

2.3. Project Objectives

The purpose of the development of Wosusokas Regional Water Supply is to:

- Utilize the potential of fresh water
- Help regencies / cities that do not have and or have limited sources of water to have an adequate water provision
- Increase efficiency of existing drinking water services in each regency / city area

3. Business Entity's Scope of Work

The project will implement a Design - Build - Finance - Operate - Maintenance - Transfer scheme with the scope of work as follows:

- Construction of Water Treatment Plant (WTP) with the capacity of 700 lps and Clear Well 2,500 m³.
- Construction of Main Distribution Pipe and corresponding Piping Bridge.
- Construction of Nguter Reservoir System with the capacity of 1,000 m³.
- Construction of Gentan Reservoir System with the capacity of 1,000 m³.
- Construction of Mojolaban Reservoir System with the capacity of 2,000 m³.
- Construction of Plesungan Reservoir System with the capacity of 10,000 m³.
- Construction of Nguter Booster System with the capacity of 500 m³.
- Construction of Mojolaban Booster System with the capacity of 2,000 m³.

The Business Entity will then operate the facility and transfer it back to the GCA after the concession period.

4. Technical Specification

Project technical specification will be further studied during finalization of FBC Report.

5. Environmental Impact Assessment (EIA/AMDAL) Findings

EIA document was prepared by the Government of Central Java Province in 2013. Tirta Utama updated it in 2018 to accommodate the new project scope after the preparation stage.

6. Land Acquisition and Resettlement Action Plan

Land acquisition will be part of GCA's responsibility. The preliminary study indicates that the project will need 352,700 m² of land, with 304,500 m² on government land. Of the remaining 48,200 m² of land, 36,000 m² have been acquired. Due to technical issues, more than 12,000 m² of land could not be obtained. However, it has been confirmed that the project can be done using the currently acquired land. The detailed land acquisition and resettlement action plan will be prepared in FBC.

7. Project Cost Structure

Estimated Project Cost	USD 52.41 Million (under review)
Indicative Debt to Equity Ratio	
- Debt Level	Under Calculation
- Equity Level	Under Calculation
IRR	Under Calculation
NPV	Under Calculation

8. Government Support and Guarantee

Government Support and guarantee will be identified during FBC preparation.

9. Contact Information

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