

CLIMATE RESILIENCE ANALYSIS OF THE DRINKING WATER SYSTEM PROJECT IN HUAYRAPATA COMMUNITY

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ABSTRACT

This document reflects an Investment Resilience Analysis (Program ARI) to the project “Sistema de Agua Potable en Comunidad Huayrapata” (Potable Water System in the Huayrapata Community), a project proposed for the municipality Poroma. For this project, it has been considered a climate change scenario considering the records exposed in the DesInventar Database, completing them with what is exposed in the Territorial Plan for Comprehensive Development (PTDI) of the municipality. In this area, in addition to the lack of access to quality water for the inhabitants, low accessibility and a limited municipal budget, also presents as main threats landslides and intense hailstorms, which could affect the components of the project, prioritizing the components of water intake works and the water adduction line by gravity, the ARI analysis was carried out based on the Risk Analysis, the Climate Resilience Analysis and a Cost Benefit Analysis. Based on each component of the project, the functionality of each one against the threats and the proposed mitigation measures, such as the construction of a retaining wall, the choice of new routes for the adduction line, and pipeline reinforcement works, After the evaluation carried out, it was determined that their implementation in the project would mean a benefit in the future, since they indicate savings in reconstruction works and emergency care.

Keywords: Climate Change, Investment Resilience Analysis (ARI), Resilience, Potable Water System, DesInventar Database, Project Components, Water Intake Works, Water Adduction Line, Mitigation, Benefits.

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