

**IMPROVEMENT OF THE EXISTING WATER SYSTEM IN BAGSIK,
ALCANTARA, ROMBLON**

A Thesis Presented to the
Faculty of the College of Engineering and Technology
Romblon State University
Odiongan, Romblon

In Partial Fulfilment of the Requirements for the Degree of
Bachelor of Science in Civil Engineering

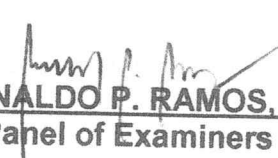
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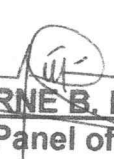


APPROVAL SHEET


The thesis entitled, "IMPROVEMENT OF THE EXISTING WATER SYSTEM OF BAGSIK, ALCANTARA, ROMBLON", prepared and submitted by ABENIR, R. G., JR.; DELEN, C. O., JR.; FERRANCULLO, J. D. A.; FLORES, J. E. V.; FRONDA, J. P. L.; MESAION, R. G., in partial fulfilment of the requirements for the degree of Bachelor of Science in Civil Engineering is hereby accepted.

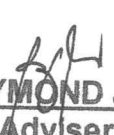

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IMPROVEMENT OF THE EXISTING WATER SYSTEM IN BARANGAY BAGSIK, ALCANTARA ROMBLON

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ABSTRACT

The study was conducted to present the workable solution to the prevailing and future environmental situation in Bagsik, Alcantara Romblon. It aimed to design a water system, on which the reservoir and piping system would provide an adequate supply of safe and potable water that would be served in every households in the said barangay.

This study intended to design a water system- the dimensions of the reservoir, routing of pipes and total project cost. The proponents also want to solve the problems in the recent situation of the existing water system, the various functions of technical and financial aspects and environmental as well.

The researchers gathered all the necessary data in the preparation of this study. The actual survey were conducted on the proposed site, personal interviews using questionnaire were done to the selected residents around the area. They also considered ideas and concepts from some professional who are knowledgeable in the topic.

Based on the interview and analysis, it is one of the necessities of the barangays to have a well – designed and well – developed water facilities. The water system facility is a level III and gravity fed type of water system. The spring source generates 1.732 liters per second.

The proposed reservoir has a dimension of 4.3m by 4.3m by 4.6m. The collected water will be added up with certain amount of chlorine as disinfectant. In addition, gate valves in every connected pipes from main pipelines will be installed.

The total estimated cost of the project is Php 1,632,210.00 and it will take 80 working days to finish the project. This amount will be financed through the savings of the local government and the implementing agency will be the barangay itself. Based on the findings and analysis of the data gathered from the prevailing designs, the proponents believed that the improvement of the existing water system facilities is essential to have a good access of water to be delivered in every household.