

# ECONOMICAL WATER SUPPLY SYSTEM

Prepared by: Chen Jun Ting, Lee Win Huei, Kee Long Sing, Oh Teck Yee

## ABSTRACT

---

The very first section is introduction about this entire project. In this section, reader will be able to know the project objective, project application, project scopes, project cost analysis and also the project description.

The second section is hydrological study analysis. A short description on hydrological study is performed including the functions of this study. Also, a simple rainfall analysis for this project will be inserted in this section too. Hydrological study of a proposed project is very important as the cost expenditure in later day can be seriously affected if this part is not carried out properly.

The 3<sup>rd</sup> section is an overview on water quality and water treatment proposed for the entire project. Since potable water supply is required for the aborigines, it is important to know the water quality before an adequate treatment method can be provided. From this section, reader will be able to know the treatment available and also the work out solution. Meanwhile, the analysis performed for each alternative including the pro and con too.

4<sup>th</sup> section is water delivery system. In this section, reader will be able to get a rough idea of the delivery system available and the analyses done for these alternatives. Since the aborigine's homeland is far away from electricity power supply, consideration has to be given in adopting a suitable and economical delivery system. A comparison on the original method and solution selected is carried out eventually.

The next section is power sources analysis. As there is no electricity power supply for the study area, research has to be done on other available resources. This source is required to drive the mechanism, or the proposed delivery system. Some of the other sources are such as steam power, wind power, solar power, etc. in order to adopt the most suit sources; analyses will be performed on each choice.

Last section is about the water indicator, an electrical installation component. Its main function is enabling the aborigines to know the water level in the storage tank. The construction steps and components required for the electrical installment are briefly discussed in this section.

Also, an overall comparison of the proposed solution shall be further discussed. The advantages, disadvantages, further analysis work on solution proposed, etc are discussed in the conclusion section.