ANALYTIC HIERARCHY PROCESS FOR RURAL MICRO PROJECT SUSTAINABILITY MONITORING IN NEPAL

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ABSTRACT

This paper intends to disseminate knowledge and experience gained on designing and implementing a multi criteria analysis based framework for sustainability monitoring of community managed projects in rural Nepal. The multi criteria analysis based sustainability monitoring framework is designed to be used at different levels. At the ground level, the implementing agency is a local non-governmental organization (NGO) and in this case at the top level, the funding agency is an international non-governmental organization (INGO) - WaterAid Nepal. The bottom level framework is based on a weighted spreadsheet for participatory information collection, and at the top level, the same information is used in an analytic hierarchy process (AHP) framework to make decisions for resource allocation for sustainability enhancement.

In this paper, we have discussed the initial development and pilot testing performed in 2007, and subsequent improvement and use of the multi criteria analysis based sustainability monitoring framework by various partners of WaterAid Nepal. The objective of developing the framework is to monitor the sustainability status of each project through multiple criteria, consisting of various indicators on technical, socio-environmental, financial and institutional aspects. Integrated assessments of four criteria, including various factors and sub-factors within each criterion, were conducted to evaluate the status of sustainability in an integrated / holistic manner with the beneficiaries' participation. In the paper, we have also cited the earlier dissemination of the work in international forums held in Bangladesh and Pakistan.

Keywords: AHP, Sustainability monitoring, Nepal, Water Supply, Sanitation

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