



Fog Water Collection Pilot Study

NACCFL is partnering with the Dhading Small Farmers' Agriculture Cooperative Federation Ltd. (SFACFL), FogQuest and CECI, to carry out the first fog water collection pilot study to be conducted in the hilly region of central Nepal. The goal of the pilot study is to evaluate the extent to which fog water collection is a safe, clean, accessible and affordable source of water supply. The selected study site is a community of 29 households in Dhunibesi Rural Municipality, Dhading District.

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Context

Rural communities living in the hilly regions of central Nepal traditionally rely on spring water tapping for water supplies. A significant number of these springs however went dry after the 2015 earthquake, probably due to the fault lines that were created and which tunnelled the available water supplies directly into the ground. Many communities had to build emergency supply lines and had to resort to bottle water and water tankers until the local springs would reappear. While many of these local springs have indeed started to flow back again, the flows remain very variable and of low quality, thus leaving many villages in precarious positions. The need to study alternative water sources complementing the existing spring water tapping systems is therefore pressing.

Objectives

NACCFL and the Dhading SFACL are launching a fog water collection study pilot project to assess the possibility of using fog water collection to expand the supplies in a small hilly community of 29 households situated in Dhunibesi Rural Municipality, Dhading District. The specific objectives of this study pilot are:

- To investigate the technical, financial, management and environmental performance of the existing community water supply system.
- To install two Standard Fog Collectors (SFCs) of 1 m² to measure the fog collection potential in two strategically selected sites over a 1-year period.
- To carry out a cost-benefit analysis of installing Large Fog Collectors (LFCs) and connecting them to the existing water supply system.
- To translate research findings and present recommendations on the potential of fog water collection for hilly areas of central Nepal.

Expected Outputs

The 1-year study pilot project will have three specific outcomes:

- A detailed socio-economic and technical evaluation of the existing community water supply system.
- A feasibility study on installing LFCs to expand the existing water supplies in the community.
- An in-depth report assessing the potential fog water collection as means of bolstering water security in the hilly region of central Nepal.



Duration:

March 2018 to March 2019

Further information:

<http://www.naccfl.org.np/>

Partners:

- Chainpur SFACL, Nepal
- FogQuest, Canada
- CECI, Canada
- Dhading SFACL

Contact:

Mr. Tremblay Lévesque,
IWRM Advisor
laurentcharles@live.ca

NACCFL, Bakundole -3,
Lalitpur, Nepal

