

Rural Water Supply and Sanitation Improvement Project, Batch X, Package 1, Implementation Phase

Status: Completed

Project Partner: CEMAT Lab

Funded by: FUNDBOARD

Project Areas: Dhankuta, Ilam, Jhapa, Panchthar, Tehrathum, Bhojpur, Udayapur, Khotang, Sankhuwasabha, Okhaldhunga, Dhanusha, Mahottari and Sindhuli All Nepal

Project Duration: September, 2019 to January, 2020

Aim:

- To conduct water quality test/analysis of physical, chemical and biological parameter of Batch X Implementation Phase (IP) Schemes in order to identify safe water of acceptable quality;
- To conduct water quality test of reservoir tank (RVT), tap and household (HH);
- To propose appropriate measures, if required, to provide safe water;
- To submit the water quality analysis report in the format provided by Fund Board.

Project Description:

Rural Water Supply and Sanitation Project is a demand led community based project being implemented by Rural Water Supply and Sanitation Fund Development Board (RWSSFDB) and is funded by Government of Nepal. The objectives of the project are to:

- Improve sector institutional performance and mainstream the “Fund Board” approach in the Government’s system, and
- Support communities to form inclusive local water supply and sanitation user groups that can plan, implement, and operate drinking water and sanitation infrastructure that delivers sustainable health, hygiene, and productivity benefits to rural households.

In this context, this project of water quality assessment of Batch X schemes under Implementation Phase –Package 1 has been assigned to CEMAT/ENPHO Joint Venture. The project aims to conduct water quality analysis of thirteen districts of eastern and central development region of Nepal. Altogether 492 samples were collected by ENPHO out of 1408 samples. Remaining samples were collected by CEMAT lab.



Altogether 19 parameters namely pH, taste, odour, electrical conductivity, turbidity, colour, total dissolved solid, total alkalinity as CaCO₃, iron, calcium, ammonia, fluoride, nitrate, chloride, total hardness as CaCO₃, Manganese, Arsenic (only for Tube Well Schemes), Total

Coliform and E. coli for the water samples were tested. Langelier Saturation Index (for gravity flow schemes) was also determined for the samples of gravity flow schemes. Sanitary inspections

Project Outputs:

- Trained four field technicians on sample collection;
- Collected 492 samples from 51 schemes from seven districts;
- Prepared Water Analysis Test Result Sheet;
- Prepared scheme wise summary report;

Major Achievements:

- Collection of 492 water samples from seven districts which included Mahottari, Dhanusha, Jhapa, Sindhuli, Khotang, Sankhuwasabha and Okhaldhunga districts