RoSPro

Roadside Spring Protection to improve water security

RoSPro project information

- **Project location:** Dhankuta Municipality and Chhathar Jorpati Rural Municipality, Nepal
- **Project duration**: July 2023 until June 2025
- **Partners**: MetaMeta, FutureWater and ICIMOD
- **Beneficiarries:** Dhankuta Municipality, Chhathar Jorpati Rural Municipality, and the Department of Local Infrastructure (DoLI)
- **Funded by**: Nederlands Enterprice Agency (Partners for Water Programme)
- **Keywords**: #roadsidesprings, #watersecurity, #springshed management, #greenroads

Problem

- Springs are the main source of water for mountain communities. 30% of springs are estimated to have dried up in the last 15 years in the mountain areas of Nepal

- Many reasons for spring drying up but no much focus on the impact of road construction on spring water resources. Springs when opened during road construction and not managed properly, apart from drying up they also damage roads.

Solution

We propose a systematic connection between road development and spring protection by combining all existing knowledge and experience of beneficiaries, local stakeholders and consortium partners

Expected Results

Increased water availability and road durability in Dhankuta municipality and generate evidence on the broader impacts of roadside spring protection at both municipality and basin levels.

For more information contact lbosma@metameta.nl

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RoSPro project phases

The project lasts for two years. We work closely with local stakeholders from start to finish, using bottom-up and participatory approaches. This helps us gain support from local governments and communities, making sure everyone feels involved. This is key for making the project sustainable in the long run.

2 Socioeconomic and hydrogeological survey

4 Implementation of roadside spring protection measures

1 Co-identification of four roadside springs

3 Co-design of roadside spring interventions

5 Monitoring impact of interventions, analyzing C&B and developing a digital twin

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