Green Roads for Water in Nepal

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Opportunities for GR4W in Nepal

HILL AND MOUNTAIN AREA

• Roadside Spring and seep management

• Water Harvesting from Road
Opportunities for GR4W in Nepal

HILL AND MOUNTAIN AREA

• Slope Protection and water retention using spoil

• Trap road sediment for farmland
Opportunities for GR4W in Nepal

TERAI
• Flood Management

River embankment and sedimentation leaving little space for water to flow. Problems of flooding, washed away bridge apron and blocked culverts.
Opportunities for GR4W in Nepal

TERAI
• Groundwater Management
• Irrigation Water management
Experience of GR4W from Nepal

i. Relevancy and Appropriateness of GR4W: Water is termed a big enemy for road infra. In the scenario where Road infra is bearing a huge damages by water, GR4W concept has been taken a big opportunity.

ii. Need of GR4W: Where water distribution is not uniform and introduction of roads further deteriorate the situation by changing water flow pattern, there is an opportunity to overturn the scenario by GR4W.

iii. Cut and fill method of road construction in hill and mountain: This mass balancing method operated through Labour based road construction approach help to minimize the damage of roads.
Experience of GR4W from Nepal

Farmers have tapped into increased water flow due to road construction. Making use of road infrastructure.
Experience of GR4W from Nepal
Ongoing activities on GR4W in Nepal

- With Department of Local Infrastructure (DoLI):
  i. Tailor made Training programme supported by NUFFIC;
  ii. developing proposal for preparing guidelines for spring management developed during road construction.
- World Bank: Kamala-Dhalkebar-Pathalaiya (KDP) road (feasibility study for road improvement work)
- DoR: ‘Postal road’ section at Bara District (19 km road stretch)
- ADB: Training
- Godawari Municipality: Assessment of 5 km road stretch in municipality
- WWF