

# Landslide Inventory Atlas of Alaknanda, Bhagirathi and Mandakini Valleys

## Objectives

To prepare **landslide inventory** along **Alaknanda, Mandakini and Bhagirathi valleys** - *Such inventory will provide the **details of landslides and associated risks** along the highways*

## Output

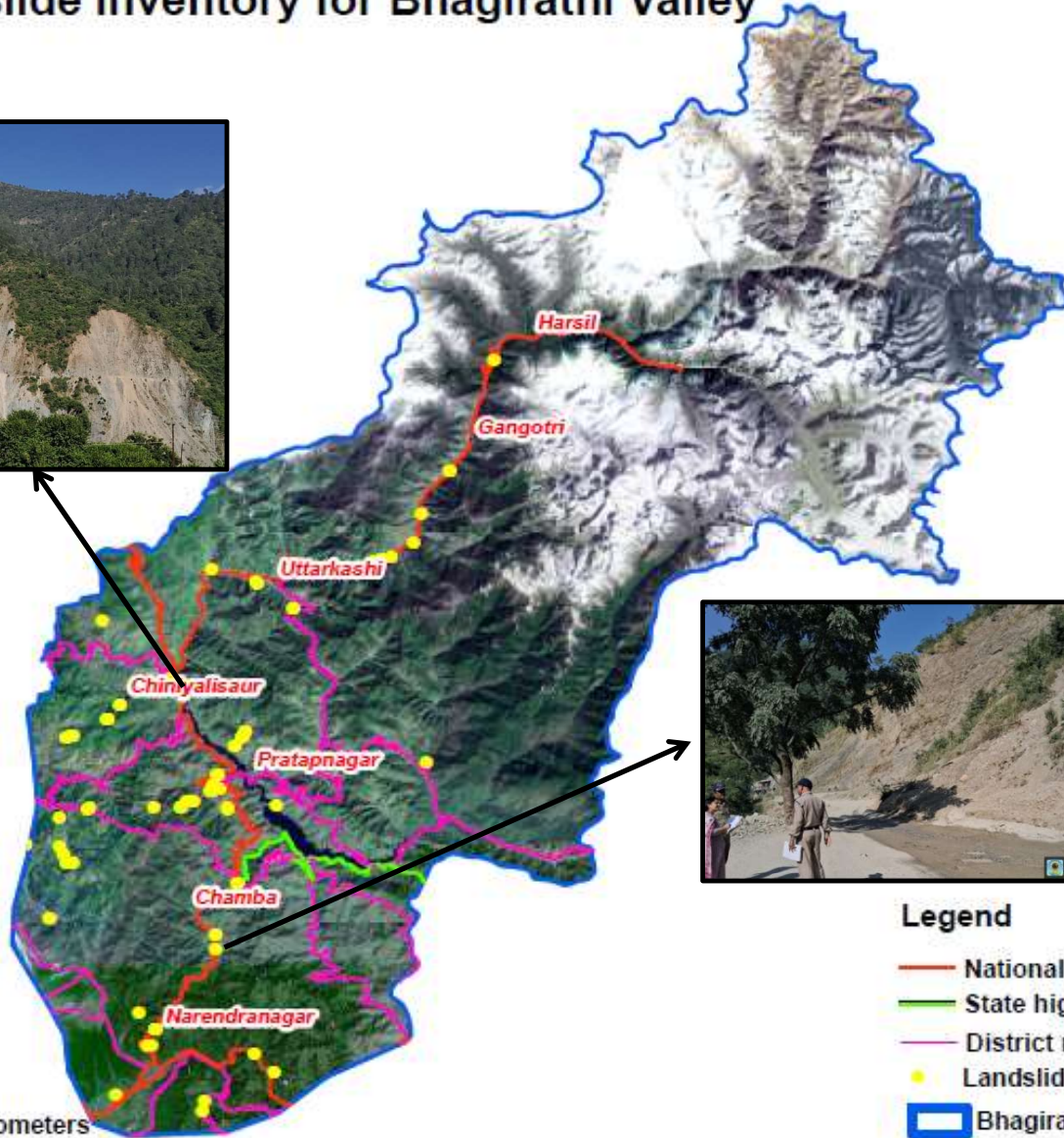
- Landslide Inventory **Atlas**.
- Landslide **Hazard and Risk Maps** in GIS.
- Prioritization and planning for **Landslide Mitigation**

# Landslide Inventory Atlas

- **52** Landslide Inventory in Alaknanda and Mandakini Valley
- **37** Landslide inventory in Bhagirathi Valley from Rishikesh to Gangotri.

Inventory Details		
1	Latitude/longitude:	30°35'18"N 79°34'10"E
2	Rock type:	Gneiss
	Type of Failure	Rock cum debris
3	Type and failure type:	Rock slide, both planar and wedge failure is present
4	Slope orientation:	N30°/45°
5	Width:	25 m
6	Height:	40 m
7	Depth of Slip surface :	1-2 m overburden of fragmented rock blocks
8	Ground condition :	Yes
9	Vegetation :	No
10	Weathering:	Very high
11	Hazard grade:	5
12	Probability of reactivation:	60%

# Landslide Inventory for Bhagirathi Valley

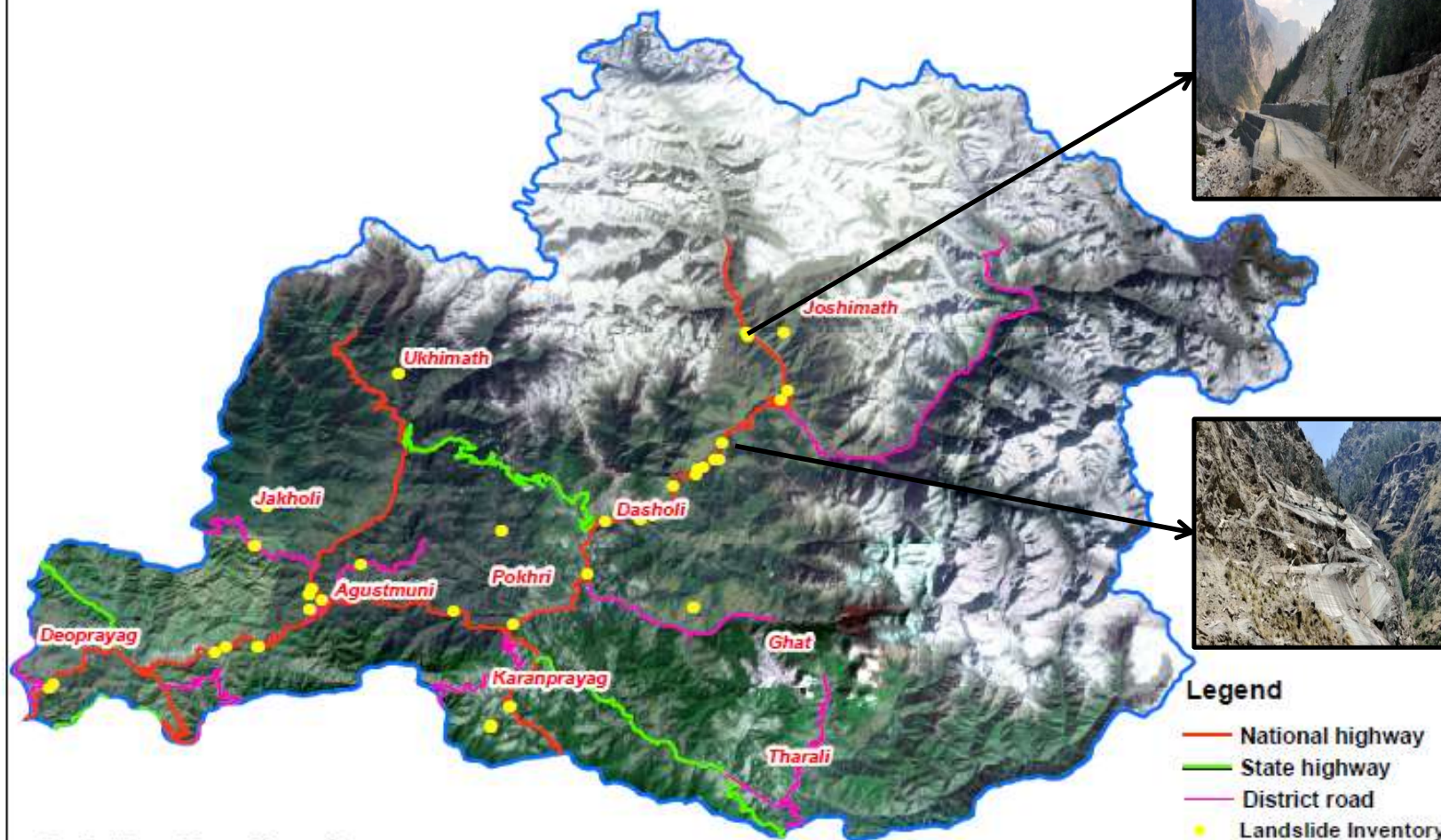


## Legend

- National highway
- State highway
- District road
- Landslide Inventory
- Bhagirathi Valley



# Landslide Inventory for Alaknanda Valley



## Legend

- National highway
- State highway
- District road
- Landslide Inventory
- Alaknanda Valley

0 5 10 20 30 40 Kilometers