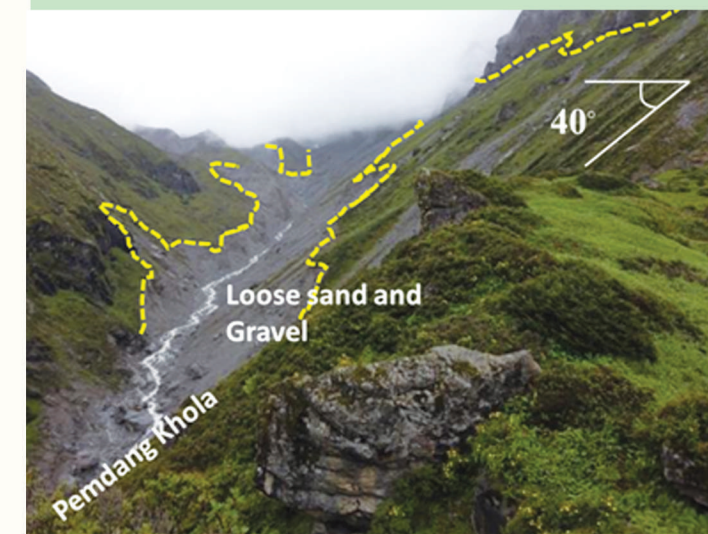


List of Available Reports on Landslide

S.N.	Studied Year (B.S.)	Title/Location
1	2038	Report on the geology and geomorphology along Bhote-Kosi:Sino-Nepal boarder regarding landslide problems some suggestions (1981)
2	2043	Landslides of Udayapur and Sindhuli districts
3	2047	Landslide Inventory in Seven Districts of Central and Western Nepal
4	2055	Tatopani landslide, Myagdi District
5	2058	Landslide Inventory and Hazard Zonation Map of Some parts of Makwanpur, Kabhrepalanchok, Lalitpur and Kathmandu Districts (Toposheet No. 72E/6 and E/7 by Parts) (2001)
6	2062	Landslide Hazard Zonation Mapping Around the Dhulikhel Area of Kavrepalanchowk Districts. (2005)
7	2063	Report on landslide of Khaptad to Devasthan, Achham
8	2064	Report on landslide of Aula Gaon ward no 7,8; Myagdi
9	2064	Landslide Inventory and Hazard Zonation Mapping around the part of Kaski, Myagdi and Parbat Districts (Toposheet No. 62P/15). (2007)
10	2064	Landslide Inventory and around the part of Syanja, Palpa and Gulmi districts in Lumbini and Gandaki Zones (Toposheet No. 63 M/9) (2007)
11	2071	Report on Jure landslide, sindhupalchowk
12	2072	Daar Gaon, Muna Rural Municipality, Myagdi (Poush 2072)
13	2072	Lumle (4,5,6) Rural Municipality, Kaski (5th Falgun 2072)
14	2073	A report on geological assessment of earthquake affected settlement area, Dhading district central Nepal
15	2073	A report on geological assessment of earthquake affected settlement area, Dolakha district central Nepal
16	2073	A report on geological assessment of earthquake affected settlement area, Rasuwa district central Nepal
17	2073	A report on geological assessment of earthquake affected settlement area, Gorkha district westren Nepal
18	2073	A report on geological assessment of earthquake affected settlement area, Nuwakot district central Nepal
19	2073	A report on geological assessment of earthquake affected settlement area, Okhaldhunga district eastern Nepal
20	2073	A report on geological assessment of earthquake affected settlement area, Ramechhap district central Nepal
21	2073	A report on geological assessment of earthquake affected settlement area, Sindhupalchowk district central Nepal
22	2073	A Report on Geological Assessment of Earthquake Affected Settlement area, Kavreplanchowk Distict Central Nepal
23	2074	Pokhara-Lekhnath Metropolitan (2017)
24	2074	Gulmi (Jan, 2017)
25	2075	Tusal, budhanilkantha-5, kathamandu
26	2075	Khimti khala, Ramechha (Chaitra 2075)
27	2075	Baglung Kathekhola-5, Nisikhola wards 1,2(July2018)
28	2075	Lamjung, Dordi-8 (August 2018)
29	2075	Nandegadha, Mallekha (7) Rural Municipality, Achham (Ashoj 2075)
30	2077	Durlung landslide, Kusma Municipality, Parbat
31	2077	Galeshwor (Piple) landslide, Raghuganga Rural Municipality, Myagdi
32	2077	Duwar landslide, Dordi Rural Municipality, Lamjung
33	2077	Musikot Municipality, Isma and Ruru Rural Municipality, Gulmi
34	2077	Balaucha Area, Aalital Rural Municipality, Dadeldhura
35	2077	Mandandeupur Municipality wards 5,10, Kavrepalanchowk
36	2077	Ghyangphedi, Dupcheswor ward 1 Rural Municipality, Nuwakot
37	2077	Malika (5,7) and Dhaulagiri (6,7) Rural Municipality, Myagdi
38	2077	Ramarosan Rural Municipality, Achham
39	2077	Sitganga (11,12), Sandhikharka (6), and Bhumikasthan (9) Municipality, Arghakhachi
40	2077	Kaligandaki (2,3,4)and Biruwa (3) Rural Municipality, Syangja
41	2077	Phulkhadka (5), Ganga Jamuna Rural Municipality, Dhading
42	2077	Amale khalan Basti and Piple Bazar (4), Melamchi Municipality, Sindhupalchowk
43	2078	Geological Assessment of Landslides in Tsum Numbri RM-3, Gorkha district, Gandaki province
44	2078	Study of Landslide of Panauti Municipality (2), Kavrepalanchok
45	2078	Disaster and Future Risk around Melanchi-Bhemathang area, Sindhupalchowk
46	2078	Landslide of Dhunibeshi Rural Municipality, Dhading
47	2078	Kattel Danda ward 8, Gorkha Municipality
48	2078	Benighat Rorang (2,3,9,10) Rural Municipality, Dhading
49	2078	Tripura Sundari (3,6), Dhading
50	2078	Nilkanthak (5,6) Municipality, Siddhalek (3,7) and Gajuri (2,4,5) Rural Municipality, Dhading
51	2078	Makalu (5) Rural Municipality, Sankhuwasabha
52	2078	Katari (10) Municipality, Udayapur
53	2078	Ramechhap (1) Municipality, Ramechhap
54	2078	Butwal, Lumbini Province



LANDSLIDE RESEARCH SECTION



Contact

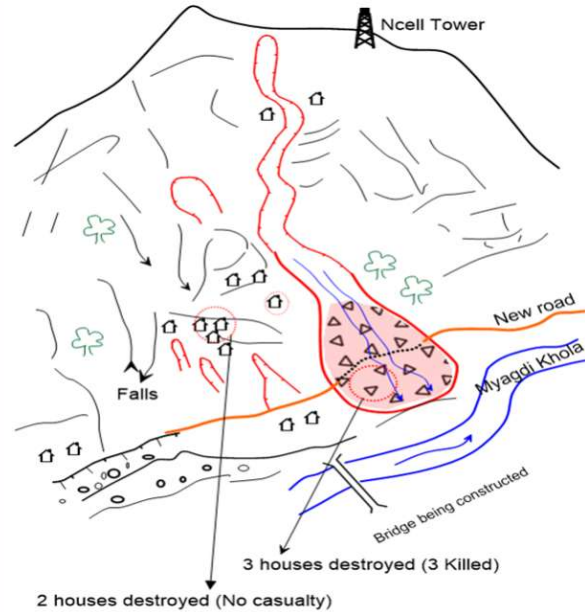
Landslide Research Section,
Department of Mines and Geology,
 Lainchaur, Kathmandu, Nepal
 Email: landslide.section@dmgnepal.gov.np



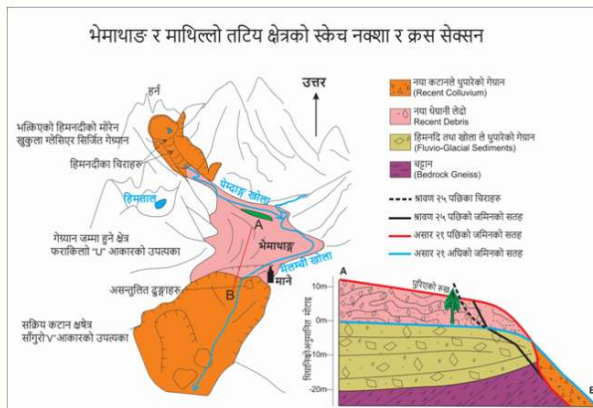
Government of Nepal
Ministry of Industry, Commerce and Supplies
Department of Mines and Geology
2022

Introduction

Landslides are one of the most devastating natural, and sometimes human-induced, disasters. It is the movement of a mass of rock, debris, or earth down a slope under the direct influence of gravity. In Nepal, most of the landslides are rainfall-induced and co-seismic. Department of Mines and Geology (DMG) started systemic landslide survey and slope stability mapping in 1986. Landslide Research section (LRS) is under the Geoscience division which is established in 2018. It is responsible for the preparation of landslide hazard map and its publication. Rapid landslide assessment is also the major work of this section, which recommend about the suitability for the settlement in and around the affected area.



Based on movement and types of material involved landslide can be categorized into five groups i.e. Topple, Slide, Fall, Spread, Flow.



Objective of LRS

1. To study landslide hazard, publish landslide hazard map and disseminate hazard information
2. To conduct rapid landslides assessment as per demands from various government and non-government organization and identify its vulnerability.
3. To aware local people from landslide hazard.

Signs of landslide warning

1. Unusual bulging or cracks developed in ground, building etc.
2. Spring, seeps or saturated ground in areas that have not typically been wet before
3. Tilting of trees, electric poles, retaining walls
4. Rapid increase in creek water levels, increased turbidity
5. Sticking doors and windows, and visible open spaces indicting jambs and frames out of plumb.
6. Unusual sounds, such as trees cracking or boulders knocking together, might indicate moving debris

Areas prone to landslide hazard

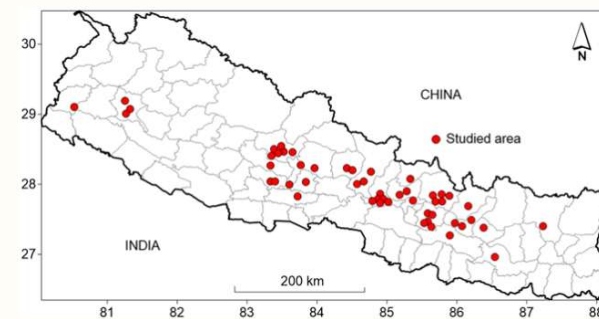
1. On existing old landslides
2. On or at the base of slopes
3. At the base or top of a steep cut slope
4. At the base or top of an old fill slope
5. Steep road cuts without proper engineering and drainage management structures.

Areas typically safe from landslide hazard

1. On hard, non-jointed bedrock, rocky area with good rock mass characteristics
2. On relatively flat-lying areas away from sudden changes in slope angle
3. At the top or along the nose of ridges
4. Area with proper drainage management.



Location of landslide studied from DMG



Resources

According to the current approved organizational structure of the Department of Mines and Geology, There are altogether two permanent staffs in this section. One geologists (Gazetted III officers, Nepal Government) work under the Head of the section who is a Senior Divisional Geologist (Gazetted II class officer of Nepal Government).

Achievement

Ten landslide hazard zonation maps are published at 1:50,000 scale. More than 50 reports on the landslides hazard assessment studied by DMG are available. The landslide inventory mapping of four provinces is completed. All maps and reports are made available to governmental agencies, consultancies, NGO's, INGO's, other relevant organizations and general public under the prescribed policy of DMG.

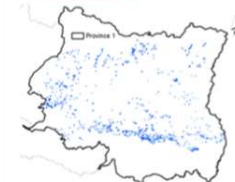
Published Landslide Hazard Zonation Maps

S.N.	Title	Location
1	Landslide hazard zonation map	Part of Makawanpur, Dhading and Kathmandu districts
2	Landslide hazard zonation map	Part of Makwanpur, Kavrepalanchok, Lalitpur and Kathmandu districts
3	Landslide hazard zonation map	Part of Kaski, Myagdi and Parbat districts
4	Landslide hazard zonation map	Part of Syangja, Kaski, Parbat and Tanahu districts
5	Landslide hazard zonation map	Part of Gulmi, Parbat, Baglung and Syangja districts
6	Landslide hazard zonation map	Part of Syangja, Palpa and Gulmi districts
7	Landslide hazard zonation map	Part of Syangja, Palpa and Tanahun districts
8	Landslide hazard zonation map	Part of Gulmi, Syangja and Palpa districts
9	Landslide hazard zonation map	Part of Myagdi, Baglung, Parbat and Kaski districts
10	Landslide hazard zonation map	Part of Baglung and Myagdi districts

Province wise landslide inventory map

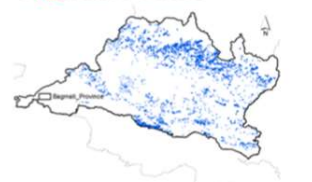


Province 1



Landslide 7039

Bagmati Province



Landslide 1199

Gandaki Province

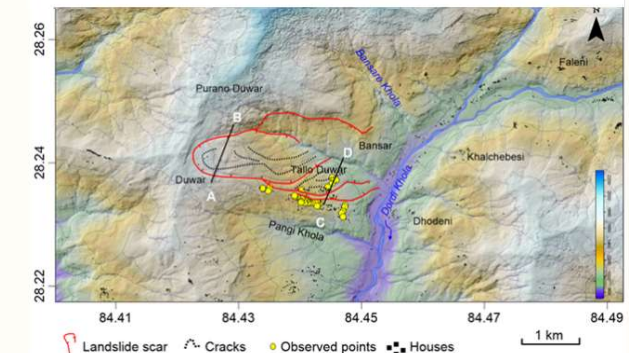


Landslide 2608

Lumbini Province



Landslide 1435



Future Plan

Detailed landslide survey is still lacking in Nepal. DMG has conducted landslide inventory survey of four provinces and three (Madhesh, Karnali and Sudurpashchim) will be conducted in upcoming years. To prepared municipality wise (rural/ urban) landslide susceptibility map. To disseminate the landslide hazard information to general public through publication of hazard maps and public awareness based programs.