

Date of Submission	10 June 2025
--------------------	--------------

IPL Project (IPL-Number) Annual Report Form

**Period of activity under report
from 1 January 2024 to 31 December 2024**

1. Project Number and Title: IPL-275: Development of the Landslide Risk Reduction Strategies for protection and safety of Heritage Sites

2. Main Project Fields

Select the suitable topics. If no suitable one, you may add new field.

(1) Technology Development

B. Hazard Mapping, Vulnerability and Risk Assessment

(2) Targeted Landslides: Mechanisms and Impacts

A. Catastrophic Landslides

(3) Capacity Building

B. Collating and Disseminating Information/ Knowledge

(4) Mitigation, Preparedness and Recovery

A. Preparedness

3. Name of Project Leader: Professor Dr. Surya Parkash Gupta

Affiliation: National Institute of Disaster Management (NIDM), Delhi, India

Telephone: +91 9868915226

Email: suryanidm@gmail.com

Core members of the Project: 1. Dr. Ravinder Singh, Senior Consultant, NIDM

2. Mr. Shubham Badola, Research Scholar, Amity University, Noida, Uttar Pradesh, India

4. Objectives (5 lines maximum)

- To identify the risks associated with landslide at heritage sites
- To develop Landslide Risk Reduction strategies for protection and safety of heritage sites
- To enhance human and institutional capacity for Landslide Risk Reduction and Resilience

5. Study Area

The study area for the project extends throughout India, with particular focus on landslides prone areas in the hilly terrains in the Northwestern, Northeastern, Northern and Southern parts of the country

6. Project Duration: 3 years w.e.f. 1st January 2024

7. Report

1) Progress in the project (30 lines maximum)

The project has attempted to identify heritage buildings, structures and sites affected by landslides in the hilly terrains of India during the recent or past times, particularly in the northern, northwestern, northeastern, and southern parts of the country. The project team carried out an extensive study of the news articles, reports, websites, available publications, government memorandums, departmental investigations, social surveys and public interactions in the landslide affected areas to identify the vulnerable heritage buildings, structures and sites at risk due to potential slope instabilities or suffered from the landslides impacts due to slope failures in the past or recent times.

A systematically designed structured format for identifying risk, on landslide events, impacts, actions / inactions and lessons learnt has been developed for carrying out this study in consultation with the concerned disaster management authorities and the relevant officials from the archaeology department or any other authority associated with these identified heritage buildings, structures and sites.

After collection and compilation of significant information related to landslide risks for the heritage assets, analysis of the information has been briefly summarize to document the lessons learnt from the past events and their impacts as well as the actions taken to respond and manage these risks. The outcomes of the study would be presented in a comprehensive manner to find out the trends and distributions of landslides to enhance the understanding about such disasters and disseminate the same to the concerned stakeholders for enhancing their human capacities for landslides risk reduction and resilience for protection and safety of heritage buildings, structures and sites. Technical guidance and support from the expert members of ICL may be sought to make the study effective, practical and usable by the various stakeholders at the global level. Finally, a publication would be brought out for wider sharing of this work in humanitarian interest.

2) Planned future activities or statement of completion of the Project (15 lines maximum)

The planned future activities pertain to the field visits to the identified landslides affected heritage buildings, structures and sites with an aim to collect more information and validate the secondary information received from other sources. An attempt will be made to briefly document these cases along with relevant data and photographs of these places along with narratives of the eye-witnesses of the known landslides events. Broadly it may lead to formulation of policy and strategies for protection and safety of heritage buildings, structures and sites from the landslides

impacts, reduce risks and enhance resilience .

3) Beneficiaries of Project for Science, Education and/or Society (15 lines maximum)

The beneficiaries of the project outcomes would be local communities, concerned authorities and disaster management professionals as well as other relevant stakeholders.

4) Results (15 line maximum, e.g. publications)

The results of the current study would help in identification and assessment of the landslides related risks to heritage buildings, structure and sites as well as promote efforts towards protection and safety of heritage in the country.

Note:

- 1) If you will change items 2-6 from the proposal, please write the revised content **in Red**.
- 2) Please fill and submit this form to **ICL Network** <icl-network@landslides.org>
- 3) Reporting year must be one or two years (Maximum).