

## IPL Project (IPL-Number) Annual Report Form

**Period of activity under report  
from 1 January 2022 to 31 December 2022**

**1. Project Number and Title:** Archival Records and Documentation of Some Socio-economically Significant Landslides in India

**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: Events, Impacts, Actions / Inactions and Lessons Learnt

A. Catastrophic Landslides, B. Landslides Threatening Heritage Sites

(3) Capacity Building

A. Enhancing Human and Institutional Capacities

B. Collating and Disseminating Information/ Knowledge

(4) Mitigation, Preparedness and Recovery

A. Preparedness

**3. Name of Project Leader:** Dr. Surya Parkash, Professor and Head, Geo-Meteorological Disasters Risks Management Division, National Institute of Disaster Management, Ministry of Home Affairs, Government of India, Delhi

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Core members of the Project: 1. Ms. Dipali Jindal 2. Mr. Anil Kathait 3. Mr. T.K.S. Roy

**4. Objectives (5 lines maximum)**

- To collect and compile database on significant landslides in India
- To study and document important relevant information on socio-economically significant landslides from the archival records
- To prepare and develop brief case studies on some selected events, impacts, actions / inactions, and Lessons Learnt from these landslides
- To publish the outcomes of the study and use it as a knowledge resource for capacity enhancement on landslides risk reduction and resilience

**5. Study Area**

The project has been implemented at the national level in India.

**6. Project Duration:** 4 years (1 January 2019 to 31 December 2022)

## 7. Report

### 1) Progress in the project (30 lines maximum)

The project activities have been followed as per plan of work and requisite data on past and existing landslides of socio-economic importance has been collected, collated and analyzed to study the trends, impacts, lessons learnt, good and bad practices in landslides risk reduction and resilience with a view to provide inputs for way forward for safer and sustainable development in landslide susceptible terrains. The landslide data has been gathered from the year 1868 to 2021. Overall 412 landslides have been identified as socio-economically significant based on the criteria defined under the present study. All these landslides have further been classified into 3 different categories depending upon the degree of impacts in terms of socio-economic damages and losses. In India, more than 70,000 landslides have been reported by different organizations across the country but most of these landslides have low socio-economic significance and hence, do not get much attention from the disaster management authorities or the media. Many of these landslides have been found to be located along the highways, human habitations and hydel projects in the vicinity of tectonically disturbed, structurally dissected, geodynamically and seismically active, highly weathered overburden materials within steep to very steep slope gradients in the areas that receive heavy to very heavy or high intensity precipitation.

The outcomes of this study have been disseminated through a free of cost publication by the Institute. The copy of this publication can be obtained from the website [https://nidm.gov.in/PDF/pubs/ARDSESL\\_NIDM2022.pdf](https://nidm.gov.in/PDF/pubs/ARDSESL_NIDM2022.pdf)

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

The project has been completed and closed during the year 2022, after the publication of the results of this study by the Institute. A copy of this publication has been shared with relevant stakeholders for necessary consideration and action at their respective end.

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

The beneficiaries of the project include the disaster management authorities, functionaries, line departments dealing management of landslides, educational and research organizations studying landslides and the local communities in assessment of disaster risks with particular reference to landslides through consideration of the past events and their impacts in the area.

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

A publication on “Archival Records and Documentation of Socio-economically Significant Landslides in India” has been made available at the Institute website.

[https://nidm.gov.in/PDF/pubs/ARDSESL\\_NIDM2022.pdf](https://nidm.gov.in/PDF/pubs/ARDSESL_NIDM2022.pdf)