

GOVERNMENT OF INDIA  
MINISTRY OF MINES  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 6308**  
TO BE ANSWERED ON 05.04.2018

**LAND SLIDE INFORMATION SYSTEM**

†6308. SHRI LAKHAN LAL SAHU:

Will the Minister of MINES be pleased to state:

- (a) whether the Government has taken any steps to set up land slide information system based on remote sensing and Geo-informatics;
- (b) if so, the details thereof;
- (c) whether any Government research lab has set up such systems and if so, the details thereof; and
- (d) whether there is any scheme for comprehensive implementation of the same and if so, the details thereof?

**ANSWER**

THE MINISTER OF STATE FOR MINES AND COAL (SHRI HARIBHAI PARTHIBHAI CHAUDHARY)

(a) to (d): Yes, Madam. Geological Survey of India (GSI), an attached office of Ministry of Mines, has developed a web-based Interactive map service called 'Bhukosh' (available on GSI Portal at [www.gsi.gov.in](http://www.gsi.gov.in)) for the management and dissemination of landslide information. Bhukosh directs to Interactive map services on 'Landslide Inventory', which contains location of mapped and field-verified landslides with a maximum of 41 attributes. The details about various attributes for each landslide incidence can be accessed using "identify" button in an interactive GIS Map Service environment. The details of about 9850 nos. of landslide incidences are currently available, covering all hill States of India, in this interactive map service. Bhukosh also directs to Interactive map services on National Landslide Susceptibility Map (NLSM) which shows spatial distribution of landslide susceptible zones (High, Moderate and Low susceptible category) on a macro-scale (1:50,000 scale). In NLSM Map Service spatial data of about 70,000 sq. km area and basic data of landslide incidences of about 22000 are currently available covering all hill States of India.

Further, National Remote Sensing Centre (NRSC) of Indian Space Research Organisation also maintains web-based map service portal called 'BHUVAN' for landslide disaster support (<http://bhuvan-noeda.nrsc.gov.in/disaster/disaster/disaster.php?id=landslide>). BHUVAN provides information on landslide susceptibility zones along few road corridors in Uttarakhand, Himachal Pradesh and Meghalaya and distribution of few selected landslides.

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