



Directory of Institutions and Resource Persons for Landslide Management in India



Landslides and their impacts on Society and Environment

Surya Parkash
T. K. Saha Roy



Towards a disaster free India.....

World Centre of Excellence on Landslide Disaster Reduction

National Institute of Disaster Management

Ministry of Home Affairs, Govt. of India

5-B, IIPA Campus, IP Estate, Mahatma Gandhi Marg, New Delhi-110 002

www.nidm.gov.in



Directory of Institutions and Resource Persons for Landslide Management in India

by

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NATIONAL INSTITUTE OF DISASTER MANAGEMENT

(Ministry of Home Affairs, Government of India)

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DISCLAIMER

NIDM has made an effort to bring out a '*Directory of Institutions and Resource Persons for Landslide Management in India*' for extending relevant available information to concerned stakeholders in the field of landslide risk reduction. The institute has compiled information from various sources including websites of related organizations, universities, institutions, departments, and agencies as well as individuals related to landslides risk reduction. **However, NIDM does not take any responsibility for the area or level of expertise of the resource person(s) or institution(s) listed in the directory. The user(s) of this directory may please check with the concerned organization(s) and individual(s) for detailed information before making any decisions related to landslides management in India. The stakeholders are also advised to use this directory at their own risk.**

As the resource persons listed in the directory are likely to get transferred for duties to different places and some of them may be on the verge of retirement, it is suggested that these contact details may be updated from time to time.

Authors

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Towards a disaster free India.....

प्रो. संतोष कुमार

कार्यकारी निदेशक

Prof. Santosh Kumar

Executive Director



FOREWORD

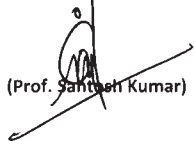
A well considered strategy and flexible mechanisms are necessary for making disaster risk reduction a reality. This calls for a concerted effort on part of all sectors, including national and state governments as well as UN agencies, corporate sector, public enterprises, INGOs, and NGOs etc. A crucial component involves sensitizing officials and other functionaries on disaster risk reduction issues so that they have the appropriate perspective in planning, implementing, communicating and monitoring activities related to disaster management.

Keeping it in view, the present document i.e. 'Directory of Institutions and Resource Persons for Landslide Management in India', has been developed by way of compilation of information from different reliable sources. Along with contact details of various institutes, departments, organizations etc., dealing in landslide management; the document also contains list of resource persons in the field of landslide management as well as addresses of important relevant websites.

I am thankful to Dr. Surya Parkash and Shri T.K. Saha Roy for their sincere efforts in compilation of the information. The efforts made by Dr. R. K. Bhandari, Geohazard specialist and Dr. Kishor Kumar, Scientist, Central Road Research Institute, New Delhi, in reviewing the document also need special thanks. The efforts made by the printing committee and Mr. S. K. Tiwari, Librarian for publishing the document, are also highly appreciated.

Special care has been taken to provide authentic and updated information as far as possible. Any omission from the list is not intentional. NIDM is looking forward for receiving comments and suggestions for further improvement of the Directory.

I hope that the Directory would be useful for disaster managers engaged in landslide management.


(Prof. Santosh Kumar)

अगर उचित है आपदा प्रबंधन, तभी मिलेगा विकास को धन।

फोन / Ph: +91-11-23702445, फैक्स / Fax: +91-11-23702446, ई मेल / E-mail: ed.nidm@nic.in, वेब साइट / Website : www.nidm.gov.in

PREFACE

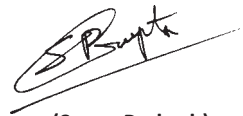
India, on account of its geographical position, geological setting and climatic conditions, has been affected by disasters of varying magnitudes at different times. Natural disasters have been claiming large number of human lives each time these strike in any part of the country. Every year, as much as six percent of the country's population is affected by disasters. In absolute numbers, this is second only to China.



The Tenth Five Year Plan suggested some important parameters for building a robust and sound information database based on knowledge sharing, information dissemination and public awareness aspects. Information is in fact a vital parameter to facilitate the quick action for saving the lives, livelihoods, economy and environment during the disasters. A directory with relevant contact numbers and other relevant information is of immense use for disaster risk reduction in the country.

Under the Disaster management Act 2005, NIDM has the responsibility of developing a database of all knowledge based institutions and provide them with a platform for sharing their experiences and activities. To cater to this mandate and fill in the gap of proper documentation, NIDM is bringing out a directory of institutions and resource persons for landslide management. This documentation is an effort to develop a resource that can be extensively used by all possible end users, besides knowledge based institutions, to share their expertise, achievements and knowledge in the field of landslide management with other stakeholders.

I am thankful to all the contributors and acknowledge their contribution in this endeavour. It is expected that this directory would be useful for disaster managers engaged in different sectors and they will utilize it in promoting the collaborative efforts to reduce the disaster risks in the country.

A handwritten signature in black ink, appearing to read 'S Parkash', with a long horizontal line extending from the end of the signature.

(Surya Parkash)
Head

**Knowledge Management & Communication Division,
NIDM, New Delhi
E-mail : suryanidm@gmail.com**

ACKNOWLEDGMENTS

I would like to express my sincere gratitude to Prof. Santosh Kumar, Executive Director, National Institute of Disaster Management, New Delhi for his kind encouragement and support in preparing the present directory of institutions and resource persons on landslide management.

I would like convey my sincere thanks to Dr. Kishor Kumar, Shri Mandapalli Raju, Dr. V. K. Sharma, Dr. Saibal Ghosh, Dr. Varun Joshi, Dr. Trilok N. Singh, Dr. Y. P. Sundriyal, Dr. Trilochan Singh Kaith, Dr. M. P. S. Bisht, Dr. S. P. Sati, and many others for their kind cooperation and inputs in the preparation of this directory.

I would like to appreciate my colleague Mr. T.K. Saha Roy, Consultant NIDM, who has extended all the requisite support and cooperation for the preparation of this directory. I am grateful to Shri Ashok Kumar Sharma, Consultant, NIDM for providing necessary support in preparing this document. I am pleased to say thanks to Shri S.K. Tiwari, Librarian and members of the printing committee of NIDM for extending necessary assistance in printing and dissemination of this directory. Thanks are also due to the NIDM administration, accounts, IT section, ED office and other supporting staff for the requisite help at different times during the processing, preparation and printing of the directory.

Last but not the least, I would like to thank my wife Reeta and my daughter Rasika Gupta, without whose consistent moral and logistic support, I would not have been able to give due attention and time to this work. I am indebted for their tolerance to bear with me when I was busy with work related to this publication and could not give due attention and care to them.

Finally, I am grateful to the Almighty God without whose grace and kindness, I would not have been capable to carry this task successfully.



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CONTENT

	Page No.
Title	i
Disclaimer	iii
Foreword	v
Preface	vii
Acknowledgement	viii
Institutions	1
Academicians, Researchers and Experts	13
Field Professionals	37
Suppliers of landslide related equipment & technical services	57
International Non-Govenmental Organisation (INGOs)	
/ Non-Govenmental Organisation (NGOs)	63
United Nations (UN) and other International Agencies	69
Allied Experts	83
Important Web-links	91
Do's and Don'ts for landslides	97

Institutions



Landslide poses threat to the safety of buildings

"Adequate understanding of landslides mechanisms and controlling factors is a pre-requisite for avoidance, prevention and mitigation of landslides"

Institutions

S. No.	Address	Name, Designation and Contact details
1.	National Disaster Management Authority, NDMA Bhawan, A-1, Safdarjung Enclave, New Delhi-10029	Shri R. K. Jain, IAS, Secretary, Tel: 011-26701710, 26701728, 26701701, Fax: 011-26701729 Email: secretary@ndma.gov.in www.ndma.gov.in
2.	National Disaster Management Authority, NDMA Bhawan, A-1, Safdarjung Enclave, New Delhi-10029	Dr. D. N. Sharma, Hon'ble Member Tel: 011-26701738, 26701761 Mob: 999532188 Fax: 011- 26701767 Email : dnsharma@ndma.gov.in www.ndma.gov.in
3.	National Disaster Management Authority, NDMA Bhawan, A-1, Safdarjung Enclave, New Delhi-10029	Lt Gen N C Marwah, PVSM, AVSM (Retd), Hon'ble Member Tel: 011- 26701775, 26701782 Mob: 9650933939 Fax: 011-26701783 Email: marwahnc.ndma@nic.in www.ndma.gov.in
4.	National Disaster Management Authority, NDMA Bhawan, A-1, Safdarjung Enclave, New Delhi-10029	Shri Kamal Kishore, Hon'ble Member Tel: 011-26701740, 26701751 Mob: 9818143429 Fax: 011- 26701754 kkishore@ndma.gov.in shorekikamal@yahoo.com www.ndma.gov.in
5.	National Institute of Disaster Management, (Ministry of Home Affairs, Government of India), 5-B, IIPA Campus, IP Estate, Mahatma Gandhi Marg, New Delhi – 110002, India	Prof. Santosh Kumar Executive Director, Tel: 011-23702445 Fax: 011-2370 2442, 2370 2446 Email: ed.nidm@nic.in www.nidm.gov.in
6.	National Disaster Response Force/NDRF & CD, Sector-1, R. K. Puram, New Delhi -110066	Shri O. P. Singh, IPS Director General Tel: 011-26712851, 26161442 Fax 011-26715303 Email: dg.ndrf@nic.in www.ndrfandcd.gov.in

S. No.	Address	Name, Designation and Contact details
7.	Geological Survey of India (Ministry of Mines, Govt. of India) 27, Jawaharlal Nehru Road, Kolkata – 700 016, West Bengal	Shri Harbans Singh Director General Phone: 033-22861676, 22861661 Mob: 08794715875 Fax: 033-22861656 Email: dg@gsi.gov.in, www.portal.gsi.gov.in/
8.	Central Road Research Institute, P.O. CRRI, Delhi-Mathura Road, New Delhi -110025	Dr. S. Gangopadhyay, Director, Tel: 011-26848917, 26823437, 26848917, 26845943 (O), 26342218 (R) Fax: 011-26830480, 26845943 Mob: 9810775724 Email: director.crri@nic.in www.crridom.gov.in
9.	Central Building Research Institute Roorkee - 247 667, Uttarakhand	Prof. S. K. Bhattacharyya Director Tel: 01332-272243 Fax: 01332-272272 Mob: 09411100666 Email: director@cbri.res.in, director@cbrimail.com www.cbri.res.in
10.	Border Roads Organization (BRO) DGBR Headquarters Seema Sadak Bhawan, Ring Road, Naraina, Delhi Cantt-110010	Lt Gen R. M. Mittal, AVSM, SM, VSM Director General Tel: 011- 25686858, Fax: 011-25686856 Email: bro-jdedp@nic.in, bro-edp@nic.in, www.bro.nic.in
11.	General Reserve Engineer Force (GREF), GREF Centre, Dighi Camp, Pune-411015, Maharashtra	Col Ajay Batra, Commandant Tel: 020-27150372, 27151148 Fax: 020-27151633 Email: bro-cen@nic.in www.bro.gov.in

S. No.	Address	Name, Designation and Contact details
12.	Indo-Tibetan Border Police Force (ITBP), Block No-2, C.G.O. Complex, Lodhi Road, New Delhi-110003	Shri Subhas Goswami, IPS Director General Tel: 011-24360618 Fax: 011-24360427 Email: itcelldte@itbp.gov.in www.itbp.police.nic.in/
13.	Border Security Force (BSF) Block 10, CGO Complex, Lodhi Road New Delhi -110003	Shri D. K. Pathak, Director General Tel: 011-24362181, 24364850, 51, 52, 53, 54, 55 Fax: 011-24360016 Email: bsfhq@bsf.nic.in www.bsf.nic.in/
14.	G. B. Pant Institute of Himalayan Environment and Development Kosi-Katarmal, Almora-263643, Uttarakhand	Dr. P. P. Dhyani, Director Tel: 05962- 241015, 241041, 241154 Fax: 05962-241014, 241150 Mob: 09412092189 Email: psdir@gbpihed.nic.in www.gbpihed.gov.in
15.	National Rural Roads Development Agency, Ministry of Rural Development, Government of India, 5th Floor, NBCC Tower, Bhikaji Cama Place, New Delhi 110066	Shri Yagyesh Sundar Dwivedi Director Tel: 011-2371382 Mob: 9868270065 Email: ys.dwivedi@nic.in, ysdwivedi@gmail.com www.pmgys.nic.in/
16.	Indian Academy of Highway Engineers (Formerly NITHE) A-5, Institutional Area, Sector-62, NH-24 Bypass, Noida-201301, Uttar Pradesh	Shri P. V. V. S. S. Ravi Prasad Director Tel: 0120-2400085 - 86, 2405006 - 09 Fax: 0120 - 2400087 Mob: 8377005672 Email: director.iahe@gmail.com www.nithe.org/contactus.htm

S. No.	Address	Name, Designation and Contact details
17.	Ministry of Road Transport & Highways Transport Bhawan, 1, Parliament Street, New Delhi-110001	Shri R. K. Pandey Chief Engineer (Planning) Tel: 011- 23739085 Fax: 011-237390085 Mob: 8376900509 Email: wim.rth@nic.in www.morth.nic.in
18.	Central Public Works Department CPWD,101-A, Nirman Bhawan, New Delhi-110011	Shri V. K. Gupta, Director General Tel: 011- 23062556, 23061317 (O), 26100701 (R) Fax: 011- 23061884 Mob: 9910181669 Email: cpwd_dgw@nic.in www.cpwd.gov.in
19.	Indian Space Research Organization, Space Commission ISRO Hqs, Antariksh Bhavan, New BEL Road, Bangalore-560231	Dr. K. Radhakrishnan Chairman Tel: 080-23415275 or 22172296 Fax: 080-23511984 Email: chairman@isro.gov.in www.isro.org/
20.	National Remote Sensing Centre, (Dept. of space, Govt. of India), Balanagar, Hyderabad-500037, Andhra Pradesh	Dr. V. K. Dadhwal, Director Tel: 40-23884000 & 4001 Fax: 40-2387 7210 Email: director@nrsc.gov.in www.nrsc.gov.in
21.	Indian Institute of Remote Sensing (IIRS), Geosciences and Geo-hazards Department, 4, Kalidas Road, Dehradun-248001, Uttarakhand	Dr. Y. V. N. Krishna Moorthy, Director, Tel: 0135-2744583, 2524101, 2584399 (O) Fax: 0135-2741987 Email: director@iirs.gov.in, yvnk@iirs.gov.in www.iirs.gov.in

S. No.	Address	Name, Designation and Contact details
22.	Wadia Institute of Himalayan Geology, 33, GMS Road, Dehradun – 248006, Uttarakhand	Prof. Anil Kumar Gupta, Director Tel: 0135- 2525 100 Fax: 0135-2625212 Email: director@wihg.res.in www.wihg.res.in
23.	Defence Terrain Research Laboratory (DTRL) Ministry of Defence, Metcalf House Delhi -110054, India	Dr M. R. Bhutiyani, Director Tel: 011- 23811599, 24648566 Fax: 011-23812494 Email: director@dtrl.drdo.in www.drdo.gov.in
24.	Snow & Avalanche Study Establishment (SASE) Himparisar, Sector 37-A, Chandigarh-160017	Shri Ashwagosh Ganju, Director Phone: 0172-2699804-06 Fax: 0172-2699802 Email: director@sase.drdo.in , ashwagosha@yahoo.com , www.drdo.gov.in
25.	Central Soil and Material Research Station (CSMRS), Outer Ring Road, Olof Palme Marg, Hauz Khas, New Delhi- 110016	Shri Murari Ratnam, Director Tel: 011-26563140-43 Fax: 011-26853108 Email: director-csmrs@nic.in www.csmrs.nic.in
26.	Central Scientific CSIR-Central Scientific Instruments Organization (CSIO), Sector-30C, Chandigarh-160030	Dr Amod Kumar Acting Director Tel: 0172-2657190 Fax: 0172-2657267 Email: director@csio.res.in www.csio.res.in

S. No.	Address	Name, Designation and Contact details
27.	National Highways Authority of India, G- 5 & 6, Sector-10, Dwarka, New Delhi – 110075	Shri R. P. Singh, Chairman Tel: 011-25093503 Fax:011-25093605, 25093507 Email: chairman@nhai.org www.nhai.org
28.	Building Materials and Technology Promotion Council, Core 5 -A, First Floor, India Habitat Centre, Lodi Road, New Delhi-110003	Dr. Shailesh Kr. Agrawal Executive Director Tel: 011-24636705 Fax: 0 11-24642849,Mob: 9412071853 Email: ska@bmtpc.org, agarwal_shaileshkr@yahoo.com www.bmtpc.org
29.	National Institute of Rock Mechanics ITI Bhavan Annex Building Old Madras Road, Doorvani Nagar, Bangalore-560016, Karnataka	Dr. V. Venkateswarlu, Director Tel: 080-25612795, 8153-275000 Fax: 08153-275002 Mob: 09448375514 Email: dto@nirm.in www.nirm.in/
30.	Forest Research Institute, PO. New Forest, Dehradun-248006, Uttarakhand	Dr. P. P. Bhojvaid, IFS, Director, Tel: 0135-2755277 Fax: 0135-2756865 Email: dfri@icfre.org, ppbhoj@icfre.org www.fri.icfre.gov.in/
31.	North Eastern Space Application Centre (NESAC), Dept. of Space, Govt. of India, Umiam-793103, Shillong, Meghalaya	Dr. S. Sudhakar, Director Tel: 0364-2570140/141 Fax: 0364 2570139 Mob: 09436160902 Email: s.sudhakar@nesac.gov.in , director@nesac.gov.in www.nesac.gov.in/
32.	State Remote Sensing Application Centre (S.R.S.A.C.) ESS-Sector, Itanagar-791113, Arunachal Pradesh	Dr. G. Ch. Chennaiah, Director Tel: 0360- 2290833, 2292956 Fax: 0360-2290982 Mob: 0943604404 Email: chennaiah_gc@yahoo.co.in www.arunachalpradesh.nic.in

S. No.	Address	Name, Designation and Contact details
33.	Kailash Building, 5th Floor, 26, Kasturba Gandhi Marg, New Delhi - 110001	Shri R. K. Gupta, Chairman-cum-Managing Director Tel: 011-23313881/23313502 Fax: 011-23314924 Email: cmd@wapcos.gov.in www.wapcos.gov.in
34.	Rail India Technical and Engineering Services, RITES Ltd., RITES Bhawan, 1, Sector 29, Gurgaon-122001, Haryana	Shri Rajeev Mehrotra Chairman & Managing Director Tel: 0124-2571602, 2571666 Fax:0124-2571660 Email: rmehrotra@rites.com www.new.rites.com
35.	India Meteorological Department (IMD), Ministry of Earth Sciences, Govt. of India, Mausam Bhawan, Lodi Road, New Delhi. 110003	Dr. L. S. Rathore, Director General, Tel: 011-24611842, 43824225, 43824201 Email: ls.rathore@imd.gov.in www.imd.gov.in/
36.	Tehri Hydroelectric Development Corporation THDC India Ltd., Corporate Office, Rishikesh Pragatipuram, By Pass Road, Rishikesh – 249201, Uttarakhand	Shri R. S. T. Sai, Chairman and Managing Director Tel: 0135-2431464 Email: cmd@thdc.gov.in www.thdc.gov.in
37.	National Hydroelectric Power Corporation (NHPC),NHPC Office Complex, Sector 33, Faridabad-121003, Haryana	Shri G. Sai Prasad Chairman & Managing Director, Tel: 0129-2278421, 2278015 Fax:0129- 2278020, 2277941 Email: vrsrivastava@nhpc.nic.in www.nhdcindia.com/
38.	National Thermal Power Corporation, NTPC Limited NTPC Bhawan, Core 7, SCOPE Complex, CGO Complex, Institutional Area, Lodi Road, New Delhi 110003	Dr. Arup Roy Choudhury, Chairman & Managing Director Tel: 011-24360044, 24361199, 11 24360100 Fax: 011-24363050, 24361018 Email: cmd@ntpc.co.in www.ntpc.co.in/

S. No.	Address	Name, Designation and Contact details
39.	Engineers India Limited (EIL), Engineers India Bhawan, 1, Bhikaji Cama Place, New Delhi-110066	Shri A. K. Purwaha, Chairman & Managing Director, Tel: 011-26762502, 26762121 Fax: 011-26102482, 26178210 Email: ak.purwaha@eil.co.in www.engineersindia.com
40.	Central Soil & Water Conservation Research & Training Institute (CSWCRT), 218, Kaulagarh Road, Dehradun-248195, Uttarakhand	Dr. P. K. Mishra, Director Tel: 0135-2758564 (O), 2754968 (R) Fax: 0135-2754213, 2755386 Email: director@cswcrtriddn.org , / pkmbellary@rediffmail.com www.cswcrtiweb.org
41.	Uttarakhand Space Application Centre, 131/2, Vasant Vihar, Dehradun- 248006, Uttarakhand	Shri Vijay Kumar Dhaundiyal, IAS Director, Tel: 0135-2763393, 2762098 Fax: 0135-2769851 Email: secy-snt-ua@nic.in www.u-sac.in/
42.	Central Institute of Mining and Fuel Research, Barwa Road, Dhanbad-826001, Jharkhand	Dr. Amalendu Sinha, Director Tel: 0326-2296023, 2296006, 2296003, 2296004, 2296005 Fax: 0326-2296025 Email: dcmrips@yahoo.co.in, director@cmri.nic.in www.cimfr.nic.in
43.	Central Board of Irrigation & Power (CBIP), Malcha Marg, Chanakyapuri, New Delhi-110021	Shri V. K. Kanjlia, Secretary Tel: 011-26115984, 26882866(O), 0129-4041591 (R) Fax: 011-26116347 Mob: 9810137864 Email: kanjlia@cbip.org, cbip@cbip.org, vkkanjlia@gmail.com www.cbip.org
44.	Central Ground Water Board, (Ministry of Water Resources), Bhujal Bhawan, NH-IV, Faridabad-121001, Haryana	Shri Sushil Gupta, Chairman Tel: 0129-2419075 Fax: 0129-2412524 Email: chmn-cgwb@nic.in, tschmn-cgwb@nic.in www.cgwb.gov.in/

S. No.	Address	Name, Designation and Contact details
45.	Central Water Commission (Ministry of Water Resources), 315, Sewa Bhavan (S), R. K. Puram, New Delhi-110066	Shri A. B. Pandya, Chairman Tel: 011- 26108855, 26108889, 26103333 Fax: 011-26195516 Email: cmanoff@nic.in www.cwc.nic.in/
46.	National Water Development Agency, (Ministry of Water Resources, Govt. of India), 18-20, Community Centre, Saket, New Delhi-110017	Shri S. Masood Husain, Director General Tel: 011-26519164 (O), 26165345 (R) Fax: 011- 26513846 Mob: 9810255680 Email: dg-nwda@nic.in, syedsmsusain@yahoo.co.in www.nwda.gov.in/
47.	Mineral Exploration Corporation Limited (MECL) Dr. Babasaheb Ambedkar Bhawan, Seminary Hills, Nagpur-440 006, Maharashtra	Dr. Gopal Dhawan, Chairman & Managing Director Tel: 0712-2510289, 2511833, 2510310 Fax: 0712-2510548 Mob: 08007771447 Email: cmd@mecl.gov.in; cmdmecl@gmail.com www.mecl.gov.in
48.	A. P. State Council for Science and Technology (A.P.S.C.S.T.), Dept. of IT and Science & Technology, Itanagar-791113, Arunachal Pradesh	Shri Kemo Lollen, Director / Member Secretary, Tel: 0360-290833(O), 2212545(R) Fax: 0360-2212935 Mob: 09436259695 Email: klollen@yahoo.co.in, aspect@indiatimesa.co.in www.arunachalpradesh.nic.in/
49.	Administrative Training Institute, Lalit Mahal Palace Road, Mysore-570 011	Mrs. Rashmi .V, IAS Director General Tel: 0821-2522142, 2443264, 2443839, 2520906 Fax: 0821-2523899 Email: dg-ati-kamy@kar.nic.in www.atimysore.gov.in

Academics, Researchers and Experts



Landslide poses threat to roads, vehicles, traffic and people

"Scientific planning, designing and construction in landslide prone areas may help reducing risks from haphazard development"

Academicians, Researchers and Experts

S. No.	Name	Designation & Organization	Contact details
1.	Prof. A. K. Jain	Head, Dept. of Civil Engineering, IIT Delhi, Hauz Khas, New Delhi 110016	Tel: 11-26591202, 26591241 Fax: 011-26581117 Email: akjain@civil.iitd.ac.in, hodcivil@admin.iitd.ac.in www.civil.iitd.ac.in
2.	Prof. Ambrish Kumar Mahajan	Head, School of Earth and Environmental Sciences, PO Box 21, Dharamshala, Dist. Kangra, Himachal Pradesh-176215	Tel: 01892- 237285, 88, 89 extn. 309 Fax: 01892 - 229331 Mob: 98186-48086, 94123-48086 Email: akmahajan@rediffmail.com www.cuhimachal.ac.in/
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Field Professionals



Search and Rescue Operation by National Disaster Response Force (NDRF) at Malin Landslide, Pune District

"Learn to recognize landslide precursors to avoid encounter with the disasters and help them manage effectively"

Field Professionals

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Suppliers of landslide related equipment & technical services



Automatic Weather Monitoring Station

"Technology integration is important for understanding landslides and implementing suitable control measures at appropriate locations"

Suppliers of landslide related Equipment and Technical Services

Landslide Directory

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3.	Aimil Ltd Instrumentation & Technology Advanced Technology & Engineering Services (ATES) Aimil Testing Laboratory, A-8, Mohan Co-operative Industrial Estate, Mathura Road. New Delhi-110044	Dr. V. M. Sharma Director Tel: 011-30810200 Fax: 011-26950011 Mob: 9810018167 Email: vmsharma@aimil.com www.aimil.com
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9.	Geoinformatics Consultant Pvt. Ltd. Plot No. 19/1919, Sector 14, 1 st & 2 nd Floor, Kaushambi, Ghaziabad-201010	Shri Sanjeev Gandhi, Vice President Tel: 0120-4160683, 2775115 Fax: 2775116, Mob: 9811151292 Email: sgandhi@gicpl.net
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International Non-Governmental Organizations (INGOs) and Non-Governmental Organizations (NGOs)



Planning for Community Based Multihazard Risk Management

"Avoid building houses near steep slopes, close to mountain edges, near drainage ways or along natural erosion valleys"

INGOs and NGOs

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2.	Bal Raksha Bharat Save the Children, 3rd Floor, Vardhaman Trade Centre, 9-10-11 Nehru Place, New Delhi-110019	Shri Harpal Singh, Chairman Tel: 011-42294900, Fax:011-42294990 Email: info@savethechildren.in www.savethechildren.in/
3.	Catholic Relief Services (CRS) 5, Community Centre, Zamrudpur, Greater Kailash-I, New Delhi-110048	Tel: 011-29237256 Fax: 011-29237257 Email: crsindia@vsnl.net www.crs.org
4.	CARE India HQ- Delhi E46/12, Okhla Industrial Area, Phase II, New Delhi-110020	Dr. Muhammad Musa Country Director Tel: 011- 49101100/01 Fax: 26385291/92 contactus@careindia.org info@careindia.org, www.careindia.org/
5.	Community Based Disaster Risk Management Society (CBDRMS), Village and Post office -Horawala via Sahaspur, District-Dehradun, Uttarkhand PIN-248197	Ms. Reeta Gupta Coordinator, Mob: 9968335226 Email: cbdrms@gmail.com www.cbdrms.org/
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United Nations (UN) and other International Agencies



International Cooperation for Landslide Risk Reduction

*“Enhance capacities in terms of expertise, knowledge and resources
for efficient management of landslides”*

UN and other International Agencies

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Allied experts for First Aid, Water Supply, Sanitation and Hygiene working together at Malin Landslide, Pune

"Cooperation, Coordination and Collaboration among different stakeholders are key for understanding different perspectives and possibilities for reducing the risks "

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Important Web-Links



Landslide affecting roads, buildings, vegetation and drainage system

“Establish an organized, vibrant, proactive, systematics and scientific social institutional mechanism for networking, linkage and coordination among different stakeholders on landslide management”

Important Web-Links

S. No.	Name of the Organization	Website
1.	Andhra Pradesh State Disaster Management Authority, Andhra Pradesh	www.disastermanagement.ap.gov.in
2.	Arunachal Pradesh State Disaster Management Authority, Arunachal Pradesh	www.arunachalpradesh.nic.in/csp_ap_portal/1st-company-sdrf.html
3.	Assam State Disaster Management Authority, Assam	sdmassam.nic.in
4.	Bihar State Disaster Management Authority, Bihar	www.bsdma.org/
5.	Border Roads Organization, New Delhi	www.bro.nic.in/
6.	Central Building Research Institute, Roorkee	www.cbri.res.in
7.	Central Public Works Department, New Delhi	www.cpwd.gov.in/
8.	Central Road Research Institute, New Delhi	www.crridom.gov.in/
9.	Central Scientific Instruments Organization, Chandigarh	www.csio.res.in/
10.	Chattisgarh State Disaster Management Authority, Chattisgarh	http://cg.nic.in/revenue/rajpatra.pdf
11.	Chief Secretaries of States & UTs	www.ccis.nic.in/WriteReadData/CircularPortal/D2/D02nic/CS_List-06022014.pdf
12.	Defence Terrain Research Laboratory, Delhi	www.drdo.gov.in/drdo/labs/DTRL/English/index.jsp?pg=contact.jsp
13.	Department of Revenue, Rehabilitation and Disaster Management, Govt. of Punjab, Chandigarh	www.punjabrevenue.nic.in/
14.	Disaster Mitigation and Management Centre, Uttarakhand	www.dmmc.uk.gov.in/

S. No.	Name of the Organization	Website
15.	Geological Survey of India, Kolkata	www.portal.gsi.gov.in/
16.	GREF Centre, New Delhi	www.bro.gov.in/
17.	Gujarat State Disaster Management Authority, Gujarat	www.gsdma.org
18.	Himachal Pradesh State Disaster Management Authority, Shimla	www.hpsdma.nic.in/
19.	India Meteorological Department, New Delhi	www.imd.gov.in
20.	Indo-Tibetan Border Police, New Delhi	www.itbpolice.nic.in/
21.	Jharkhand State Disaster Management Authority, Jharkhand	www.jharkhandonline.gov.in/ New_Depts/disma/disma_fr.html
22.	Karnataka State Disaster Management Authority, Karnataka	www.ksdma.co.in/
23.	Kerala State Disaster Management Authority, Kerala	www.sdma.kerala.gov.in/
24.	List of Relief Commissioners of States/UTs	www.nidm.gov.in/PDF/links/rc.pdf
25.	Madhya Pradesh State Disaster Management Authority, Bhopal	www.mpsdma.nic.in/
26.	Maharashtra State Disaster Management Authority, Mumbai	www.mdmu.maharashtra.gov.in/ pages/drmpprogram/ currentstatusShow.php
27.	Meghalaya State Disaster Management Authority, Shillong	www.megrevenueadm.gov.in/msdma/ msdma_aboutus.html
28.	Ministry of Home Affairs, New Delhi	www.mha.gov.in

S. No.	Name of the Organization	Website
29.	Mizoram State Disaster Management Authority, Mizoram	www.dmr.mizoram.gov.in/
30.	Nagaland State Disaster Management Authority, Nagaland	www.nsdma.gov.in/
31.	National Disaster Management Authority, New Delhi	www.ndma.gov.in
32.	National Disaster Management in India, New Delhi	www.ndmindia.nic.in
33.	National Disaster Response Force, New Delhi	www.ndrfandcd.gov.in/
34.	National Hydroelectric Power Corporation (NHPC), Faridabad, Haryana	www.nhpcindia.com/
35.	National Institute of Disaster Management, New Delhi	www.nidm.gov.in
36.	Odisha State Disaster Management Authority, Bhubeneshwar	www.osdma.org
37.	Water and Power Consultancy Services, Gurgaon	www.wapcos.gov.in/Home/
38.	Relief and Disaster Management Department, Manipur	www.manipurportal.mn.gov.in/portal/portal/StatePortal/Department/ReliefAndDisasterManagement
39.	Revenue & Disaster Management Department, Haryana	www.revenueharyana.gov.in/
40.	RITES Ltd., Gurgaon	www.new.rites.com/

S. No.	Name of the Organization	Website
41.	Secretaries to the Government of India	www.ccis.nic.in/WriteReadData/CircularPortal/D2/D02nic/Secy-List-12022014.pdf
42.	Sikkim State Disaster Management Authority, Sikkim	www.sikkimlrmd.gov.in/
43.	Snow & Avalanche Study Establishment (SASE), Chandigarh	www.drdo.gov.in/drdo/labs/SASE/English/index.jsp?pg=contact.jsp
44.	Tripura State Disaster Management Authority, Tripura	www.tdma.nic.in/
45.	United Nations Children's Fund, New Delhi	www.unicef.org/
46.	United Nations Development Programme, New Delhi	www.undp.org.in
47.	United Nations Human Rights, New Delhi	www.ohchr.org/EN/countries/AsiaRegion/Pages/INIndex.aspx
48.	United Nations Office for Disaster Risk Reduction	http://www.unisdr.org/partners/united-nations
49.	Uttar Pradesh State Disaster Management Authority, Uttar Pradesh	www.rahat.up.nic.in/
50.	Wadia Institute of Himalayan Geology, Dehradun	www.wihg.res.in
51.	West Bengal State Disaster Management Authority, Kolkata	www.wbdma.gov.in/HTM/ www.wbdma.gov.in/HTM/

Do's and Don'ts for Landslides Risk Reduction



Need for monitoring, early warning, alert and evacuation planning along with safety tips (Do's and Don'ts) for reducing risk to people & properties from impending landslides

"Awareness and preparedness against impending landslides will help reduce the risk among the affected communities"

Safety Tips for Landslide Risk Reduction

In General

- Avoid building houses near steep slopes, close to mountain edges, near drainage ways or along natural erosion valleys
- Avoid going to places affected by debris flow. In mud flow areas, build channels to direct the flow around buildings.
- Stay alert in active and potential landslide prone areas. Many deaths from landslides occur while people are sleeping.
- Listen for unusual sounds that might indicate moving debris, such as trees tilting, cracking of rocks or boulders knocking together.
- Move away from the landslide path as quickly as possible.
- Avoid river valleys and low-lying areas. If you are near a stream or channel, be alert for any sudden increase or decrease in water flow and notice whether the water changes from clear to muddy.
- Go to designated safe shelter if you have been told to evacuate.
- Stay away from the active slide area as there may be danger of additional recurring slides.
- Check for injured and trapped persons near the slide, without entering into the slide area directly.
- Avoid areas which are generally prone to landslides - Old and/or recent existing landslides; Base or top of slopes; Base of minor drainage hollows; Base or top of an old fill slope; and Base or top of a steep cut slope.

Develop a Family Disaster Plan

- Develop an evacuation plan
- Discuss landslides and debris flow with your family. Everyone should know what to do in case a landslide happens. Discussing disaster ahead of time of the event helps reduce fear & panic. It would prepare everyone

to know how to respond during a landslide disaster.

Landslide warning signs

- Sticking or jamming of doors or windows
- Appearance of deep cracks in plaster, tile, brick, or foundations
- Pulling away from the building of outside walls or stairs
- Slow development of widening cracks on the ground or on paved areas such as streets
- Breakage of underground utility lines
- Appearance of bulging ground at the base of a slope
- Emergence of flowing ground water in new sites
- Sudden decrease in creek water levels though rain is still falling or just recently stopped
- Tilting or moving of fences, retaining walls, utility poles, or trees.

Immediate steps for imminent Landslide

- Contact your local Fire, Police or Emergency Operation Centre
- Inform neighbors likely to get affected by landslide
- Leave the area quickly

Actions for Rain Induced / Triggered Landslide

- Become familiar with the land around you. Slopes, where landslides or debris flows have occurred in the past, are likely to experience them in the future
- Buildings should be located away from known landslides, debris flows, steep slopes, streams and rivers, intermittent-stream channels, and the mouths of

mountain channels

- Observe the patterns of storm-water drainage on slopes near your home, and watch especially the places where runoff water converges, increasing flow over soil-covered slopes. Observe the hillsides around your home for any signs of land movement, such as small landslides or debris flows or progressively tilting trees
- Contact your local authorities to learn about the disaster management response, and develop your own emergency plans for your family and business

During Intense Rainfall

- Be observant. Many landslide and debris flow casualties occur when people are sleeping. Listen to radio for warnings of intense rainfall. Intense short bursts of rain may be particularly dangerous, especially after longer periods of heavy rainfall and damp weather
- Unusual sounds might indicate moving debris, such as trees cracking or boulders knocking together. A trickle of flowing or falling mud or debris may precede larger landslides. Be alert for any sudden increase or decrease in water flow in streams or channels. Such changes may indicate landslide activity upstream, so be prepared to move quickly
- If you live in areas susceptible to landslides and debris flows, consider leaving if it is safe to do so. If you remain at home, move to a part of the house farthest away from the source of the landslide or debris flows, such as an upper floor, but keep an escape route open should it become necessary to leave the house
- Be alert when on the roads. Embankments along roadsides are particularly susceptible to landslides. Watch the road for collapsed pavement, mud, fallen rocks, and other indications of possible landslides or debris flows

After Intense Rainfall

- Be alert for signs indicating land movement. Landslides can occur weeks or months after intense storms

Things to Remember

- Mudflows tend to flow in channels, but will often spread out over a floodplain. They generally occur in places where they have occurred before
- Landslides and mudflows usually strike without much appreciable warning. The force of rocks, soil, or other debris moving down a slope can devastate anything in its path. Take the following steps to be ready
- Plant ground cover on slopes and build retaining walls
- In mudflow areas, build channels or deflection walls to direct the flow around buildings
- **Remember:** If you build walls to divert debris flow and the flow lands on a neighbor's property, you may be liable for damages

Precautions to be taken during landslides

- **If inside a building:**
 - Stay inside
 - Take cover under a desk, table, or other piece of sturdy furniture
- **If outdoors:**
 - Try and get out of the path of the landslide or mudflow
 - Run to the nearest high ground in a direction away from the path
 - If rocks and other debris are approaching, run for the nearest shelter such as a group of trees or a building
 - If escape is not possible, curl into a tight ball and protect your head.

After Landslide

- Stay away from the slide area. There may be danger of additional slides
- Check for injured and trapped persons near the slide area. Give first aid if trained
- Remember to help your neighbors who may require special assistance—infants, elderly people, and people with disabilities

- Listen to a radio or television for the latest emergency information
- Stay away from the slide area. There may be danger of additional slides
- Check for damaged utility lines. Report any damage to the utility company
- Check the building foundation, chimney, and surrounding land for damage
- Replant damaged ground as soon as possible since erosion caused by loss of ground cover can lead to flash flooding



Socio-Economic and Environmental Consequences of Landslides



World Centre of Excellence on Landslide Disaster Reduction

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