

## Editorial Board

### Chairman

Satendra, *Executive Director*

### Editor

Sreeja S. Nair

## Highlights

NIDM observed Van Mohotsava  
on 23<sup>rd</sup> July 2012

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## Message

The large scale deforestation in the country along with faulty development and management practices have resulted in various kinds of environmental degradation. Deforestation has increased the frequency and intensity of other cataclysmic disasters i.e., erosion, landslides, floods, droughts, desertification, etc. In ecologically more sensitive and destabilized areas like Himalayas, the impact of deforestation has been more severe, directly or indirectly affecting the lower plains of the country also. Rapid deforestation in the Himalayas and resulting degradation of its ecology has posed a potential danger to the greenery of the Indo-Gangetic belt causing sporadic floods in one pocket and drought in other part. The deforestation in the form of mangrove removal has made the coastal region more susceptible to erosion and damage to human settlement.

Taking into consideration of the seriousness of the problem it is time that necessary preventive and progressive steps are taken to check further deterioration of the environment. Tree plantation along with conservation and protection of natural forests may be a viable alternative to prevent and mitigate the adverse impacts of deteriorating environmental condition on human society.

Giving due consideration to the issue of forest conservation and plantation, NIDM observed 'Van Mahotsava' in its campus on 23<sup>rd</sup> July, 2012 with an objective to sensitize NIDM officials and others about the role and significance of forestry in disaster mitigation. NIDM also observed 'Environment Day' on 5<sup>th</sup> June, 2012 and organized competition inviting slogans and poems on the theme "Safeguard Environment for Disaster Risk Reduction" from the schools all over the country. NIDM is committed to safeguard the environment for making the country resilient to the impacts of disasters

I hope, through various initiatives our institute is heading towards achieving DRR through sustainable environment management practices.



(Satendra)

## NIDM observed Van Mahotsava

New Delhi, 23<sup>rd</sup> July, 2012

NIDM observed "Van Mahotsava" on 23<sup>rd</sup> July 2012 with the objective of sensitizing officials about its intricate linkages between forest conservation and Disaster Risk Reduction, leading towards environment sensitive DRR planning. Sh. V.K. Duggal, Hon'ble Member, National Disaster Management Authority, graced the occasion as Chief Guest of the function. Sh. Mukul Goel, IG NDRF was also present.

During the function two publications of NIDM released namely "India Disaster Report 2011" & "Directory of Institutions and Resource Persons in Disaster Management". On this event *Vriksharopan* programme was also organized in which saplings were planted by chief guest, other guest and faculty & staff members of NIDM & SDMC



Sh. V.K. Duggal, Hon'ble Member, National Disaster Management Authority planting sapling on the occasion of *Vanmahotsava*

## 6<sup>th</sup> meeting of the Governing Body of NIDM

New Delhi, 11<sup>th</sup> July, 2012

The 6<sup>th</sup> meeting of the Governing Body of NIDM was held on 11<sup>th</sup> July 2012, under the chairmanship of Shri M. Shashidhar Reddy, Hon'ble Vice Chairman, National Disaster Management Authority (NDMA). The meeting was attended by Dr. Sutanu Behuria, Secretary, NDMA, Dr. D. K. Bandyopadhyay, Vice Chancellor, GGSIPU Delhi, Shri R. K. Srivastava, Joint Secretary, MHA, Shri Surender Singh, AFA (H), MHA, Dr. Somprakash Bandyopadhyay, Professor, IIM Kolkata, Dr. D. D. Srinagesh, Chief Scientist, NGRI Hyderabad, Shri V. Bhanumurthy, Scientist 'G', Department of Space, Shri Alok Chandra, Director, Ministry of Finance, Department of Expenditure. The Governing Body considered various agenda items and approved/gave directions on the proposals for implementation.



Shri M. Shashidhar Reddy, Hon'ble Vice Chairman, National Disaster Management Authority (NDMA) chairing the 6<sup>th</sup> meeting of the Governing Body of NIDM

## Workshop under National School Safety Programme

New Delhi, 3<sup>rd</sup> August, 2012

NIDM organized workshop on National School Safety Programme on 3<sup>rd</sup> August 2012 to facilitate the development of TOT module on School Safety under the National School Safety Programme. Under this program, NIDM has been entrusted with the responsibilities of Impart training to Master Trainers and to develop ToT Module on School Safety. Based on the training schedule developed by NIDM in consultation with NDMA, NIDM has already conducted eight training programs for Master Trainers and trained about 200 stakeholders till



Group photo workshop on capacity building under the National School Safety Programme

September, 2012. The aim of the workshop was to discuss the training module framework of School Safety. The objectives of the workshop were (i) to review and analyse the available tools & methodologies and Reference Material

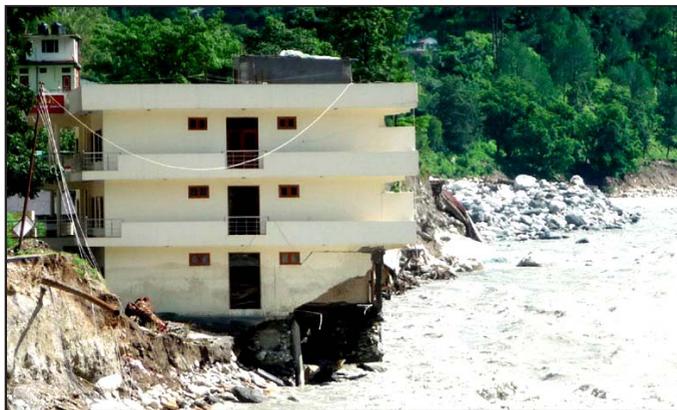
for each training session and (ii) to discuss and finalize the session plan, objectives of the ToT Module, key messages of each session, communication strategy and finalize the training materials.

## Disasters of this Quarter

### Flashfloods and Landslides Major areas in Asi Ganga Valley, Uttarkashi District, Uttarakhand

8-13<sup>th</sup> August, 2012

The Asi Ganga Valley and the Bhagirathi River Valley in the Garhwal Himalaya of Uttarkashi District, Uttarakhand State faced catastrophic flash floods and landslides after heavy rainfall on 3<sup>rd</sup> August 2012 at about 10pm to 3am on 4<sup>th</sup> August 2012. The worst affected areas are Gangotri, Sangamchatti and Bhatwari. According to an estimate, 7389 people from 1159 families in 85 villages have been affected due to this event. The reports reveal that 28 persons have been killed by these flash floods and landslides while 6 persons are still missing and 12 have been injured. Besides the human loss, 125 animals have also died. The disaster has fully damaged 101 pucca buildings and 4 kuchcha buildings whereas 77 pucca buildings have been severely damaged in the affected area. Approximately 38.54 hectares of agricultural land has also been damaged by the flash floods and landslides. Ninetyeight road routes were closed after the event, however 66 have been opened for traffic. Fourteen bridges have been damaged and 2 bridges are partially affected. Six power lines were also damaged causing electricity problems in the area. Water supply lines in the area have also got damaged, resulting in acute shortage of drinking water.



The district administration responded to the disaster situation with the support from Indo-Tibetan Police Force, Border Roads Organization, National Disaster Response Force, Army, Air Force, National Institute of Mountaineering and NGOs like Shanti Kunj, Bhuvneshwari Mahila Ashram, White Army etc. The victims including the stranded pilgrims and injured were air-lifted from the affected / cut-off areas and brought to Uttarkashi, Chinyalisaur and Dehradun. Immediate relief in terms of cash and items were provided to the victims as per norms of the State Disaster Response Fund (SDRF). The control room in the district headquarters worked 24x7 hours with the 7-desk system in operation. The victims were provided temporary shelters in 7 educational and hostel buildings. Food items have been air dropped in inaccessible area. NIDM has sent a team under the leadership of Dr. Surya Parkash, Associate Professor, to document the event, its impact and response. The team has visited the affected areas in Asi Ganga valley and held meetings / discussions with the district and state officials to understand the event and document the lessons learnt. The team is in the process of developing an analytical report, including lessons learnt.



### Tamilnadu Express Fire

30<sup>th</sup> July, 2012

The Chennai-bound Tamil Nadu Express Train caught fire at 4:22 am near Nellore, Andhra Pradesh, India on 30<sup>th</sup> July 2012.

The fire took place on the Tamil Nadu Express train (No. 12622) that originated from New Delhi and was bound for Chennai,

Tamil Nadu. There were 72 passengers in the reserved S-11 sleeper coach and at least 6 unreserved passengers. At least 32 passengers died and 27 were injured. The fire gutted the S-11 sleeper coach in 20 minutes. The train passed through the Nellore station at 4:15 am and caught fire at 4:22 am. It was moving at a speed of around 70 kilometers per hour (43 mph). The driver stopped the train after a gateman at a railway crossing spotted smoke and fire from the S-11 coach and alerted authorities. Due to sweeping winds, the coach was quickly engulfed in flames. A railway emergency crew was sent on the scene rapidly and detached the burning coach from the other coaches, preventing the fire from spreading to the rest of the train.

The local district police believe that the fire was caused by a short circuit, but the railway officials did not rule out possibility sabotage. Some passengers reportedly heard an explosion before the flames broke out, while the speed of the fire's



Fire personnel trying to douse the blaze in the S11 coach of the Tamil Nadu Express near Nellore on Monday.

spreading and the reported discovery of kerosene Can raise further suspicion.

(Source : Times of India. 30 July 2012 and 31 July 2012)

## NIDM in International Forum

### NIDM participated in International Workshop on Koshi Basin Programme (KBP) Phase I, 3-5 September, 2012, ICIMOD HQ, Kathmandu, Nepal

Dr. Anil K Gupta, Associate Professor of NIDM, participated in the International Workshop on Koshi Basin Programme (KBP) Phase 1 (3-5 September, 2012, ICIMOD HQ, Kathmandu, Nepal) as rapporteur of the hazard risk mitigation lead group, and delivered a special address to the workshop on challenges of hydro-meteorological disasters in Kosi Basin and downstream with perspectives of policy planning and research.



### NIDM participated in "EAS Seminar on Capacity Building for Disaster Preparedness" from September 17-21<sup>st</sup>, 2012, Beijing, China

Dr. Satendra, Executive Director attended "EAS Seminar on Capacity Building for Disaster Preparedness" during 17<sup>th</sup> to 21<sup>st</sup>, September 2012, in Beijing, China. The seminar was attended by representatives of more than 12 countries and international organizations. The seminar was organized by the Government of People's Republic of China intended to share the knowledge of participants and their experiences in disaster preparedness capacity building, promote mutual understanding and communication among the participating countries about disaster preparedness laws and regulations, organizational structure, materials reservation, and equipment construction among other things, strengthen pragmatic communication and cooperation in disaster preparedness, and provide support for the construction of disaster preparedness management partnership among disaster management departments of various countries. The three days seminar encompassed the four major sessions, i.e., the opening and closing ceremonies, keynote speeches, panel discussions, and a field visit. The seminar unfolded on the three units of policy, development and capacity construction in disaster preparedness, disaster relief materials reservation and



equipment construction, disaster preparedness enhancement and experience sharing. Altogether about 60 participants attended the seminar, including officials and representatives engaged in disaster preparedness from member countries under the framework of EAS, distinguished experts from China

and abroad along with domestic representatives of the ministries and local agencies. Executive Director, NIDM made a detailed presentation about disaster preparedness issues in India and response mechanisms.

## **NIDM participated in UNISDR Workshop on “Stock-taking and Ways Forward in Capacity Development for Making Cities Resilient” 19<sup>th</sup>-21<sup>st</sup> September, 2012, Incheon, Republic of Korea**

The UNISDR convened a 3-day Workshop on Stock-taking and Ways Forward in Capacity Development for Making Cities Resilient at the UNISDR ONEA/GETI in Incheon, Republic of Korea on September 19-21, 2012. The Making Cities Resilient Campaign was launched by UNISDR and partners in 2010 with the aim of strengthening the role of local government in disaster risk reduction and the implementation of the Hyogo Framework for Action. Less than two years later, over 1,000 cities have joined the campaign and made it clear that cities are committed to take action. Cities have made it clear that there is a need to make a shift from advocacy to practical actions and emphasized that more support is required to build capacities

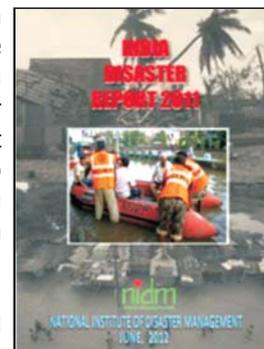
for implementing the campaign’s “Ten Essentials”. While efforts are underway in many countries to create an enabling environment through national policy, the means and mechanisms of delivering capacity development to scale fall far short of demand. A variety of approaches including training of trainers, support to national training institutors, city-to city learning, distance learning and leveraging the emerging market of private sector capacity development service providers . Nearly 40 participants different regions attended the event. Prof. Santosh Kumar, represented Govt. of India and also made presentation on capacity development for urban risk reduction and making cities resilient.

### **Publications**

#### **India Disaster Report 2011**

Dr. K. J. Anandhakumar, Dr. Ajinder Walia and Mr. Shekhar Chaturvedi

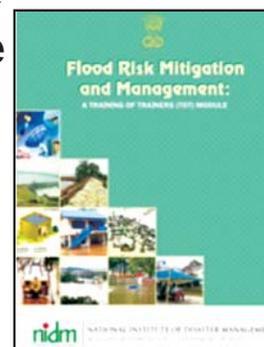
India has witnessed an increase in the frequency and intensity of disasters in the past resulting in widespread devastation. Many of the disasters, particularly in remote areas, go unreported because local administration lack the technical and human resources for community-level disaster monitoring and are not able to fully identify or map potential local hazards or develop the appropriate disaster management plans. Losses from low-intensity, but more extensive disaster events continue to affect housing, local infrastructure, and large numbers of people. These disasters at the local level are so frequent that many communities accept them as an integral part of their existence and with varying degrees of success, learn to live with them. During the year 2011-12, 14 States and one Union Territory reported damage to various disasters like cyclonic storms, heavy rains, floods, landslides, earthquakes, etc. in varying degrees. These states were Assam, Bihar, Goa, Gujarat, Himachal Pradesh, Karnataka, Kerala, Maharashtra, Odisha, Punjab, Sikkim, Uttar Pradesh, Uttarakhand, West Bengal and Union territory of Puduchery. India disaster report 2011 is an effort to systematically collect, collate, analyze and document the disaster happened in India during the 2011 and the lesson learned from them. To download the report visit <http://nidm.gov.in/PDF/India%20Disaster%20Report%202011.pdf>



#### **Flood Risk Mitigation & Management : A Training of Trainers Module**

Author : Dr. A. D. Kaushik

“Flood Risk Mitigation & Management, Training of Trainers Module” has been developed with the technical support of Central Water Commission, New Delhi to conduct the training programmes on flood for senior & middle level Officers of various sectors of Central and State Governments and trainers of various training institutes engaged in disaster management-There are five modules viz., Flood Disaster Management System in India; Flood Mitigation; Flood Preparedness; Flood Response and Cross Cutting Issues & Lessons Learnt. Each module has further been classified as sub modules i.e. learning units to cover the related issues of flood risk mitigation and management. This module



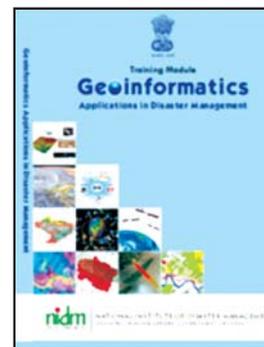
can be used as a guide book by trainers who have already undergone the training or involved in conducting training programmes on disaster management. The module is self-explanatory and complete, and a person new to the subject can also use it effectively. The organizations such as Disaster Management Centres located in State Administrative Training Institutes (ATIs), National Disaster Response Force (NDRF), State Institute of Rural Development (SIRDs) and other training institutes at regional and district levels in the above-mentioned departments, people working in NGOs/CBOs and social organizations, volunteers in NCC, NVKS, NSS may be the potential users of the module.

<http://nidm.gov.in/PDF/modules/flood.pdf>

## Training modules on Geoinformatics Applications in Disaster Management

Author : Sreeja S. Nair

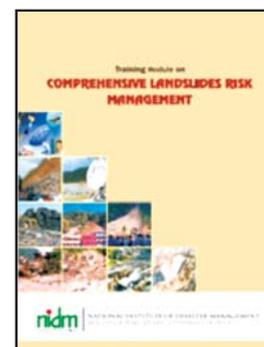
This training modules on Geoinformatics Applications in Disaster Management has been prepared as a training guide for building the capacity of technical professionals and disaster managers to optimally use Space Technology, The module would help the participants to acquire knowledge and basic skills of effectively utilizing geoinformatics in managing disasters. The module is tested for technical experts representing state remote sensing application centres, research development organizations , administrators etc. In addition it can also be used by other training facilitators and self-learners as well. Based on needs assessment and feedback from the national, state and district level technical professionals and Disaster Managers the module is presented as a series of units containing introduction to Geoinformatics as well as applications in various phases of disaster management i.e. pre, during and post disaster phases. The module has two Annexures, Annexure I containing formats and Annexure II: Practical manual developed using widely used proprietary software like Arc GIS, ERDAS and ENVI as well as in open source products like Quantum GIS , ALOHA, Marplot, Google Earth. The module can be downloaded from <http://nidm.gov.in/PDF/modules/geo.pdf>



## Training Module on Comprehensive Landslides Risk Management

Author : Dr. Surya Prakash

The module on "Comprehensive Landslides Risk Management" is developed for five day training course focusing on imparting basic and requisite knowledge / skills needed by different stakeholders at various levels in the field of Landslide Management. This module is divided into 14 submodules. The module is developed with inputs from Geological Survey of India (GSI), Border Roads Organization (BRO) Central Road Research Institute (CRRI), Advanced Technical Engineering Services (ATES), Central Building Research Institute (CBRI), Snow and Avalanches Studies Establishment (SASE), Wadia Institute of Himalayan Geology (WIHG) and Community Based Disaster Risk Management society (CBDRMS). The module has been designed with multi- hazards risk management approach and briefly discusses various types of vulnerabilities in a holistic manner. The document will provide an insight to the trainees about landslides and measures required for reducing the risks at different levels. To download the module go to <http://nidm.gov.in/PDF/modules/Landslide.pdf>



## Meetings and Delegation Visits

### USAID Delegation visit

New Delhi, 02<sup>nd</sup> August, 2012

A delegation from United States Agency for International Development (USAID) led by Mr. William S. Berger, Principal Regional Advisor for South Asia, OFDA visited NIDM on 2<sup>nd</sup> August 2012 to discuss various issues of mutual interest for collaboration with National Institute of Disaster Management (NIDM) & SAARC Disaster Management Centre (SDMC). The delegation comprised of Mr. Michael Ernst, Regional Advisor for South Asia, OFDA, Mr. Andrea Tracy, Regional Advisor for South Asia, OFDA & Ms. Christine Gottschalk, Asia Team Lead, OFDA, Washington DC.



United States Agency for International Development (USAID) delegation meeting in the Chamber of Executive Director, NIDM

The delegation had a meeting with Dr. Satendra, Executive Director NIDM, Dr. Santosh Kumar, Professor NIDM, Sh. Arun Sahdeo, Consultant NIDM, & Dr. M.B. Rao, Specialist SDMC. The delegation was apprised of the progress made under the

bilateral agreement between USAID and Government of India under the Disaster Management Support Project being implemented by NIDM, Ministry of Home Affairs, Government of India. A number of issues of mutual interest were discussed for collaboration between the OFDA/USAID with NIDM/SDMC.

## Official visit of Delegation of South African Ministry of Social Development to India

22<sup>nd</sup> - 25<sup>th</sup> August, 2012

A ten member delegation led by Ms. Virginia L. Peterson, Chief Executive Officer (CEO), South African Social Security Agency (SASSA) visited NIDM on August 22, 2012 to have meetings and interactions with representatives of Central Government and State governments in order to know about the disaster management framework of the country and role of NIDM in implementing Government's strategies with respect to disaster management. Meeting was organized by NIDM under the chairmanship of Executive Director NIDM and was attended by faculty members of NIDM, Professionals of SAARC Disaster Management Centre (SDMC) and representatives from Government of NCT of Delhi. Presentations were made on activities of NIDM and SDMC. This was followed by presentation by representatives from Government of NCT of Delhi and South African Delegation. A detailed discussion was held after the presentations about policies, strategies, Training and capacity building strategy of Government of India. Discussions were also held on strategy and activities undertaken by various



Delegation from South African Social Security Agency (SASSA) interacting with faculty members of NIDM, Professionals (SDMC) and representatives from Government of NCT of Delhi

governments on reconstruction and rehabilitation in post disaster phase. During the meeting, it was agreed upon to work on future collaborations between South African Government and NIDM in the field of disaster management.

### Training Programmes Conducted

(July – September, 2012)

1. Road Accidents & Safety, NIDM, 2-3 July.
2. Reconstruction and Rehabilitation of Disaster affected Areas, Sikkim, 2-6 July.
3. Legal Framework for Disaster Risk Reduction, ATI Orissa, 2-4 July.
4. Seismic Safety Assessment of Buildings in Delhi by Rapid Visual Survey, NIDM, 11-13 July.
5. Gender Sensitive Disaster Management, NIDM, 16-20 July.
6. Seismic Safety Assessment of Buildings in Delhi by Rapid Visual Survey NIDM, 25-27 July.
7. Health Care for all in Emergencies, ATI- Bihar, 6-9 August.
8. Seismic Safety Assessment of Buildings in Delhi by Rapid Visual Survey, NIDM, 7-9 August.
9. IRS: Operations Section Chief Course, NIDM, 3-5 September.
10. Formulation of District Disaster Management Plan, ATI-Rajasthan, 3-7 September.
11. Application of Geo Informatics in Disaster Management, ATI- Karnataka, 3-7 September.
12. Cyclone Risk Mitigation & Management, ATI- West Bengal, 10-14 September.
13. Disaster Risk Reduction and Media, NIDM, 12-14 September.
14. Needs for Children in Disasters, NIDM, 17-21 September.
15. Programme on DM for NCC and NSS officers, NIDM, 17-21, September.
16. Formulation of Village DM Plan, NIDM, 24-28 September.
17. Climate Change & Drought Risk Management, NIDM, 24-28 September.
18. Seismic Safety Assessment of Buildings in Delhi by Rapid Visual Survey, NIDM, 26-28 September.

### NIDM - GFDRR Online Training Programmes

- Comprehensive Disaster Risk Management Framework, 11<sup>th</sup> June– 20<sup>th</sup> July, 2012.
- Earthquake Risk Mitigation, 23<sup>rd</sup> July-17<sup>th</sup> August 2012 (4 weeks).
- Safe Cities, 20<sup>th</sup> August -14<sup>th</sup> September, 2012 (4 weeks).
- Climate Change and Disaster Risks, 17<sup>th</sup> September – 12<sup>th</sup> October, 2012 (4 weeks).

## Upcoming Events

### Upcoming Training Programmes

- Landslide Hazard and Risk Management, ATI, Maharashtra, 5-7 November.
- Ecosystem Approach to Disaster Risk Reduction, NIDM, 8-12 October.
- ToT on School Safety, MATI, Meghalaya. 8-11 October.
- Safety Assessment of Buildings in Delhi by Rapid Visual Survey, NIDM. 17-19 October.
- Safety Assessment of Buildings in Delhi by Rapid Visual Survey, NIDM. 31 Oct.- 2 November.
- Civil Defence and Disaster Management, NIDM, 29 October-2 November.
- IRS: Planning Section Chief Course. East Kannada district Karnataka. 5-9 November.
- Urban Risk Mitigation & Management, Meghalaya, 19-23 November.
- Forest Fire Risk Mitigation & Management, FRI Dehradun, 26-30 November.
- Training Course on Disaster Management for SDMAs and DDMA's, NIDM, 3-7 December.
- Disaster Safe Hill Area Development, Uttarakhand, 10-14 December.
- IRS: Planning Section Chief Course, NIDM, 10-14 December.
- Impact of Extreme Weather Events (Heat and Cold Wave), UP-SIRD, 20-21 December.
- Community Based Disaster Risk Reduction in India, Tripura, 31 December 2012 - 4 January 2013.

### Online Training Programmes

- Comprehensive Disaster Risk Management Framework, 1<sup>st</sup> October – 9<sup>th</sup> November, 2012.
- Community Based Disaster Risk Management, 15<sup>th</sup> October – 09<sup>th</sup> November, 2012.
- Comprehensive Disaster Risk Management Framework, 12<sup>th</sup> November – 21<sup>st</sup> December, 2012.
- Gender Aspects of Disaster Recovery and Reconstruction, 12<sup>th</sup> November - 07<sup>th</sup> December, 2012,
- Financial Strategies for Managing Economic Impacts of Disasters, 10<sup>th</sup> December, 2012 - 04<sup>th</sup> January, 2013.
- Comprehensive Disaster Risk Management Framework, 24<sup>th</sup> December, 2012– 01<sup>st</sup> February, 2013

### Disaster Reduction Day on 10 October 2012, New Delhi.

NDMA & NIDM will be observing "Disaster Reduction Day" on the 10<sup>th</sup> October, 2012 at New Delhi in the lines of International Day for Disaster Reduction.



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