

## NIDM Newsletter - Vol. XI, No. 2, April 2016 - September 2016

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### Highlights

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### MESSAGE

“Arise  
Awake  
Don't stop till  
the goal  
is reached”  
— Swami Vivekananda



Disaster risk reduction is a challenge. And, there are many unfulfilled tasks to be completed for making communities disaster resilient. It is a continuum process and has to be coincided with the development initiatives. Working in an integrated way is not a choice but it is inevitable. We have to move out from disaster risk blind development to disaster risk sensitive development. We had acknowledged poverty, malnutrition, polio, high mortality, illiteracy etc. as a challenge for making society happy and confronted with it. We got positive results in addressing those issues. Disaster risk reduction and climate change too is a challenge for sustainable development. We need to confront with them also. And, as Swami Vivekananda has said that “do not stop till the goal is reached”.

NIDM has been engaged in this endeavor especially for capacity building. It is working for re-orienting people's own thought about disaster risk management, climate change and sustainable development. NIDM provides opportunity not only **how to think but also what to think**. Mind is a tool, a mechanism and the soul provides fuel for that machine. A free thinking environment at NIDM has gone beyond border. As disaster has no border, knowledge and learning too are borderless. Delegates from Africa, SAARC, East Asia, ASEAN are also participating in NIDM's programme. This quarter, NIDM got engaged in organizing SAARC nations programme where delegates from SAARC member countries participated. NIDM, by realizing learning beyond borders, also capitalized the technology and organized online /web based / satellite based programmes. We have to learn from each others' experiences with the focus on making society resilient. Technology has been able to integrate Individuals, societies, states, nations, regions, continents together and provided opportunities to the mankind for confronting with the challenges together. I close quoting the **holy Guru Dalai Lama**, “**Love and compassion are necessities, not luxuries. Without them, humanity cannot survive.**”

  
(Santosh Kumar)  
Executive Director

## **SAARC Training Programme on “Landslide Risk Mitigation and Management in South Asia”**

**29<sup>th</sup> August – 2<sup>nd</sup> September 2016**

A 5 days SAARC Regional Training programme on “Landslide Risk Mitigation and Management in South Asia” was organized by National Institute of Disaster Management, Ministry of Home Affairs in collaboration with SAARC Disaster Management Centre (Interim Unit), New Delhi and Ministry of External Affairs, Government of India, during 29<sup>th</sup> August – 2<sup>nd</sup> September 2016 at NDCC Building and NIDM, New Delhi.



**Group Photograph after the Inaugural Ceremony**

The key objectives of the SAARC regional training programme on Landslide Risk Mitigation and Management have been to enhance the capacity of participants by strengthening technical know-how and integrating the knowledge to manage landslides on the basis of sharing Indigenous traditional wisdom, skills, state of art technology and expertise among professionals, field functionaries and decision makers in the member states. The programme served as a platform for the various stakeholders working in the related field to interact and share their experiences on the emerging technologies and best practices in the SAARC member states. The participants in this training represented senior delegates of member states. Twenty two participants from SAARC member states including India, Nepal, Bhutan and Sri Lanka attended this training programme.

The inaugural session was organized at the first floor conference room of SAARC DMC, NDCC Tower-II building, Jai Singh Road, New Delhi. The Chief Guest for the inaugural session was **Mr B. B. Mallick**, Additional Secretary (Foreign Affairs), Government of India. He addressed the participants and emphasized on the issue of regional cooperation and landslide risk mitigation and management in South Asia. He emphasized on the regional corporation on sharing knowledge, expertise and experiences in the field of early warning and strengthen capacity in landslide early warning system for build back better in the region.



The Joint Secretary, SAARC Division, Ministry of External Affairs, Government of India, **Mr. Prashant Agarwal** also addressed to participants on different disaster impacts and their scenario in the SAARC region as well as emphasized on the importance of regional cooperation for DRR in South Asia. He stated that Government of India has always extended support to the different member states in the SAARC region during the crisis periods including quick response during Nepal earthquake 2015.

**Prof. Santosh Kumar**, Executive Director, NIDM, extended warm welcome to the chief guest, experts and the participants. He emphasized on different disasters that occurred in South Asia. He also emphasized on enhancing cooperation and promoting resilience among affected communities besides working towards priority actions under Sendai Framework of Action for Disaster Risk Reduction (2015 – 2030) declared during the 3<sup>rd</sup> World Conference on Disaster Risk Reduction held in Japan during 14-18 March 2015.

**Dr. Surya Parkash**, Programme Director and Head, Knowledge Management & Communication Division, National Institute of Disaster Management, Ministry of Home Affairs, Government of India, informed the dignitaries and the delegates about the overall content of the course, resources persons and experts involved in delivery of the course content as well as the representation of different member states, relevant departments and organizations in the training programme. He has also mentioned about the Sendai Declaration made by the International Consortium on Landslides (ICL) for promoting initiatives and regional cooperation on landslides risk reduction for the period between 2015 and 2025. He mentioned about the development of teaching tools for landslides risk reduction in the Asia Pacific region by the ICL.



The training has been provided by eminent experts like Dr. R.K Bhandari, Varnes Medal Awardee and former Director, Central Building Research Institute, Roorkee as well as resource persons from various organizations such as National Disaster Management Authority (NDMA), National Institute of Disaster Management (NIDM), National Remote Sensing Centre (NRSC) - Hyderabad, Defence Terrain Research Laboratory - New Delhi, Border Roads Organization, Central Road Research Institute (CRRI) and School of Environment Management, Guru Govind Singh Indraprasth University (GGSIPU) - New Delhi.

### **Training on “Forest Fire Disaster Risk Mitigation & Emergency Response”**

**19<sup>th</sup> – 23<sup>rd</sup> September 2016**

A 5 day training program on “Forest Fire Disaster Risk Mitigation and Emergency Response” has been organized by National Institute of Disaster Management, New Delhi in collaboration with Silviculture division of FRI, from 19<sup>th</sup> – 23<sup>rd</sup> September 2016 at Forest Research Institute, Dehradun. The training has been organized to sensitize the different stakeholders about the adverse consequence of forest fire disasters on forests and how such risks can be mitigated through management techniques.



**Participants at the FRI Dehradun during training programme**

29 participants including 21 IFS officers, 7 Officers from paramilitary forces like ECO-Task Force, BSF, CISF & ITBP and 1 Officer from ATI belonged to 14 states of the country participated in this programme. The training deliberated on different topics like Disaster Management: Concepts and Framework, Damage Assessment of Forest Fire using GIS and Remote Sensing, Forest Fire Management in Himalaya, Climate Change, Theory and demonstration to use GPS for Burnt Area Assessment, Community Participation in Forest Fire Management

according to New Working Plan Code-2014, Impact of Forest Fire on Forest Ecosystem, Near Real Time Monitoring of forest fire using MODIS based Web Fire Mapper: Demonstration by FSI and Group exercise followed by panel discussion on various issues of forest fire disaster risk mitigation etc. were deliberated by eminent faculty of FSI, IIRS, FRI and NIDM etc.

The training programme has been inaugurated by Dr. Savita IFS, Director, FRI, Dehradun. She emphasized that fire lines and any fuel materials lying on the forest ground should be cleared before fire season so that fire did not extend to larger areas. She also said that forest department should be well prepared before the fire season to control forest fires. Dr. Neelu Gera IFS, Head Silviculture Division, emphasised on advance preparation for mitigation of forest fires, especially in the Himalayan region. Dr. Anil K. Gupta, Associate Professor and Dr. A.D. Kaushik, Research Associate from NIDM stressed on the impact of climate change on forestry sector and the need of multi-sectoral approach for reducing the risk of forest fires. They also mentioned about the various training programmes being organised by NIDM in collaboration with various research institutes of the country. The training programme has been found very useful by the participants in forest fire risk mitigation and emergency response through forestry activities oriented with disaster management.

### **Regional Workshop on “Disaster Management and Preparedness, Focus on Sikkim Monasteries & Nunneries and Adjoining Community”**

**21<sup>st</sup> – 23<sup>rd</sup> September 2016**

The 7<sup>th</sup> Khoryug Conference held in March 2016, had proposed to organize three Regional Workshops on Disaster Preparedness and Management in Tibetan Monasteries and Nunneries located in the eastern, northern and southern parts of the country respectively. Accordingly, the first Regional Workshop has been organized by the Karma Shree Nalanda Institute at Rumtek Monastery from 21<sup>st</sup> to 23<sup>rd</sup> September 2016. NIDM provided technical support by deputing Shri Rajesh K. Singh, Joint Director and Ms. Chandrani Bandyopadhyay, Assistant Professor to the workshop. The Institute also facilitated a training team from 2<sup>nd</sup> Battalion of NDRF to provide hands-on training to the monks, nuns and local school children.



**First Aid Training of Monks and Nuns by NDRF/NIDM**

46 monks and nuns from 8 monasteries in Sikkim and Darjeeling and Vajra Vidya Institute, Sarnath attended the workshop. The event aimed at building the capacity of monks and nuns through a combination of knowledge and skill development. Thus, Search & Rescue as well as First Aid training was an integral part of this workshop. The first day focussed on technical inputs related to the significance of disaster risk management for monasteries and nunneries, key concepts of disaster management, risk assessment and the framework for DM planning for monasteries and nunneries. In addition to the speakers from NIDM, Shri G.C. Khanal, Additional Director, Sikkim State Disaster Management Authority (SSDMA), explained the vulnerability of Sikkim. Participants, grouped by monastery or nunnery, then chose the most common

disaster in their area and began developing a plan for preparedness, response and recovery. The subsequent days were dedicated to skill development and hand-on training for this. The participants also presented the DM Plans for their own monasteries and nunneries. The concluding session was graced by senior monks of Rumtek monastery, NIDM and representatives from Kun Kyong Charitable Trust. The need for continued disaster preparedness programmes to build capacity of monks, nuns and communities was emphasized by all speakers and NIDM's and NDRF's contribution was appreciated.

## **SAARC Regional Training Programme on “Flood Risk Management”**

**26<sup>th</sup> – 30<sup>th</sup> September 2016**

A 5 days SAARC Regional Training programme on “Flood Risk Management” has been organized by National Institute of Disaster Management, Ministry of Home Affairs in collaboration with SAARC Disaster Management Centre (Interim Unit), New Delhi and Ministry of External Affairs, Government of India, during 26<sup>th</sup> – 30<sup>th</sup> September 2016 at NIDM, New Delhi.



**Group Photograph after the Inaugural Ceremony**

The key objectives of the SAARC regional training programme on Flood Risk Management have been to enhance the capacity of participants by strengthening technical knowledge and integrate it in flood risk management on the basis of sharing Indigenous traditional wisdom, skills, technology and expertise among member states. The programme served as a platform for the professionals working in the related field to interact and share their experiences on the emerging technologies and best practices in the SAARC member states. The participants in this training represented senior delegates of member states. 16 participants from SAARC member countries including India, Nepal, Pakistan, Afghanistan and Bangladesh attended this training programme. The Inaugural session of the training programme commenced with the welcome to the dignitaries and the delegates by Programme Director, Dr. Surya Parkash, NIDM. He mentioned about the background and overview of the programme, followed by brief self introduction by the participants.

**Prof. Santosh Kumar**, Executive Director, NIDM, addressed all national and regional participants to the five days training programme. He discussed the role of regional stakeholders in reference to the Sendai declaration for implementation and achieving the goal of build back better in the region. He also highlighted, climate change adaption, trans-boundary issues, sharing of knowledge and expertise, sustainable development for DRR, ratification of regional response mechanism and strengthen regional DRR mechanism.

After the Inaugural Session, the technical sessions initiated with **Shri Kamal Kishore**, Member NDMA, who highlighted issues and challenge in flood risk management. The issues that have been raised included (i) Warning system for the people, (ii) Role of structural and non-structural measures particularly in embankment safety, (iii) What is the future risk and (iv) Regional and sub-regional level Mechanism. He expressed the role of early warning in flood



risk management and lessons learnt from past and need for implementation at the local level. The structural and non structural measure should now be considered specifically in embankment design and drainage system for rural and urban flooding. He also emphasized the impact of climate change on physiological and geographical condition for flood risk management.



**Dr. K J Ramesh**, DG Indian Metrological Department, shared experiences on flood forecasting and warning system. He pointed out hydro-meterological set up, rainfall pattern in catchment areas, national drainage system, early warning system at local level and drainage systems for rural & urban flood risk management in South Asia. He highlighted initiatives taken by IMD for hydrological modeling and warning system for flood risk management in India. He encouraged participants to share expertise and explore experience among member states for developing regional mechanism for flood risk mitigation for the

region.

**Dr. Surya Parkash**, Programme Director and Head Hydro-Meteorological Hazards and Forestry Division, NIDM delivered his lecture on fundamentals of disaster management and discussed about the regional and national initiatives of respective governments in the SAARC region. He explained the basic concepts and philosophy of hazards / disasters, vulnerability, capacity, risk and other terms used in disaster management practices to all the participants. He was also shared some case studies and his experiences with different disasters in India.

**Shri O.P Singh**, IPS, DG CISF, has also shared his experience of response mechanism during Nepal earthquake, Uttarakhand flood and Kashmir flood in a panel discussion. He has also highlighted on the role of NDRF and initiatives taken by NDRF. The theme has been further discussed by **Shri. P. N. Rai**, IPS, DG Home Guard and Fire Services, Govt. of Bihar, who presented a case study on Kosi breach, response, issues and challenges in rescue and relief, camp management, resource management, future challenges and application of Incident Response System.

The other experts who have been involved in the training included **Dr. L.S. Rathore**, Country Representative, World Meteorological Organisation and **Dr. Surinder Kaur**, Scientist 'F' IMD during the panel discussion on forecasting rain induced floods, rainfall pattern, forecasting system and structure, NWOP model and major initiatives taken by Indian Meteorological Department during and before floods in India. The present global and national distribution of natural disaster was also discussed. **Dr. O.P Gupta**, Director, CWC presented the dam break analysis concepts, models, River Data collection, flood forecasting, monitoring and warning system in India while **Shri V. D. Roy**, Director (FFM) explained about the flood problem, flood forecasting set up, flood monitoring period, data compilation, formation and dissemination, research methodology, reporting system and different meteorological studies were conducted by central water commission in flood risk management and a case study.

In addition, **Ms. Chandrani B. Neogi**, NIDM, presented on Urban flooding scenario, causes of urban flood, preparedness and mitigation measure for urban flooding and **Prof. Chandan Ghosh**, NIDM, highlighted flood resilient construction and habitat planning, protection from flood water, the world without engineers, Uttarakhand sans Engineering and GLOF Warning in Bhutan Siren Towers.

Country presentations have been made by the participants from Nepal Bangladesh, Pakistan and Afghanistan on DM structure, function and initiatives of their respective countries. They also shared their respective countries action plan post-Sendai and best practices in the field of flood risk management. The participants have also attended practical training on stress management class at NIDM during the early morning hours (7-8 AM). A field visit has been made to Yamuna Barrage & Indian Meteorological Department by the trainees.

## Training Programmes Organized (July – September 2016)

Sl. No.	Name	Venue	Date (s)	Faculty Member(s)	No. of Participants
1.	ToT course on IRS	NIDM	11-15 July	Sh. P.K. Pathak	34
2.	Control Measures for Landslide	CBRI Roorkee	18-22 July	Dr. Surya Parkash	31
3.	ToT Course on, "School Safety"	NIDM	1-5 August,	Dr. Ritu Raj and Dr. Amir Ali Khan	36
4.	ToT Course on, "Basic and Intermediate under IRS"	Dadra & Nagar Haveli	8-12 August,	Sh. R. K. Singh & Sh. P. K. Pathak	64
5.	ToT on, "Mainstreaming DRR into City Development Plans	YASHADA, Maharashtra	29-31 August	Ms. Chandrani Bandyopadhyay & Sh. Shekher Chaturvedi	14
6.	IRS : Planning Section Chief	NIDM	5-9 September	Sh. P.K. Pathak	19
7.	Rapid Visual Screening of Built up Facilities (for Earthquake Risk)	ATI Manipur	5-9 September	Prof. C.G.Ghosh Dr. Amir Ali Khan	31
8.	Mainstreaming DRR in to development with respect to ULBs	ATI West Bengal	5-9 September	Ms. Chandrani Bandyopadhyay Sh. Shekher Chaturvedi	24
9.	Mainstreaming DRR in to Sustainable development Planning Jointly with UNESCAP	UNESCAP Delhi	13-16 September	Dr. Anil Gupta & Dr. Ajinder Walia	32
10.	Gender and Disaster Management	NIDM	19-23 September	Dr. Ajinder Walia & Dr. Ritu Raj	26
11.	Forest Fire Disaster Risk Mitigation	FRI, Dehradun	19-23 September	Dr. A.D. Kaushik & Dr. Anil Gupta	29

### SAARC Regional Training Programmes

1.	SAARC Regional Training on "Landslide Risk Mitigation and Management in South Asia"	NIDM	29 August - 2 September	Dr. Surya Parkash	22
2.	SAARC Regional Training programme on "Flood Risk Management"	NIDM	26 - 30 September	Dr. Surya Parkash	16

### One Day Sensitization Programmes

1.	Disaster Management Training on Earthquake Disaster/ Structural Behavior/Building bye Laws for Councilors of Imphal Municipal Council	Imphal	22 September	Prof. C.G.Ghosh Dr. Amir Ali Khan	27
2.	Disaster Management Training on Earthquake Disaster/Structural Behavior/Building bye Laws for ward members of Imphal Municipal Council	Imphal	23 September	Prof. C.G.Ghosh Dr. Amir Ali Khan	34

## Online Courses

1.	1 <sup>st</sup> Basic Course (Comprehensive Disaster Risk Management Framework)	Online	1 August - 11 September	Sh. Shekher Chaturvedi	30
2.	2 <sup>nd</sup> (Comprehensive Disaster Risk Management Framework)	Online	15 August - 25 September	Sh. Shekher Chaturvedi	34
3.	3 <sup>rd</sup> (Comprehensive Disaster Risk Management Framework)	Online	16 September – 6 November	Sh. Lalrokima Chenkual	41

## Upcoming Training Programmes (October - December 2016)

Sl. No.	Name of Course	Venue	Date(s)	Faculty Member(s)
1.	Rapid Visual Screening of built-up facilities (for Earthquake Risk)	AASC, Guwahati	3-5 October	Prof. C. Ghosh
2.	Rapid Visual Screening of built-up facilities (for Earthquake Risk)	NIT Silchar	4-6 October	Prof. C. Ghosh
3.	Mainstreaming DRR into PRI Sector	SIRD U.P.	21-25 November	Sh. Shekher Chaturvedi Ms C. Bandyopadhyay
4.	ToT on Recovery in collaboration with UNISDR & GEITI	NIDM	21-25 November	Dr. Amir Ali Khan Dr. Ajinder Walia
5.	Landslide Mitigation by Bio- engineering	ATI, Meghalaya	28 - 30 November	Prof. C. Ghosh Dr. Surya Parkash
6.	ToT on School Safety	NIDM	28 Nov - 2 December	Dr. Ritu Raj Dr. A.D. Kaushik
7.	ToT course on IRS- Incident	NIDM	5-6 December	Sh. P.K. Pathak
8.	ToT course on IRS Operation Section Chief	NIDM	7-9 December	Sh. P.K. Pathak
9.	School Disaster Management Plan	BIPARD, Bihar	20-22 December	Dr. Ritu Raj Dr. A.D. Kaushik
10.	Comprehensive Disaster Risk Management for Officials from African Countries	NIDM	19-30 December	Prof. C. Ghosh Dr. Amir Ali Khan
11.	Integrated Emergency Response Course (IEMC)	NIDM	20-22 December	Dr. Surya Parkash Dr. Ritu Raj Prof. C. Ghosh
12.	Disaster Psycho-social Care in collaboration with NIMHANS, Bangalore	UP Police	26-30 December	Dr. Ajinder Walia
13.	Stampede Risk Management	ATI Chhattisgarh	28-30 December	Sh. Shekher Chaturvedi Sh. P.K. Pathak



**We welcome comments / responses / articles from readers of our Newsletter**

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