

## National Level Training Programme on “Extreme Weather Events” 6 - 10 August 2018

### BACKGROUND

NIDM has been mandated by Sub-section 8 and 9, Section 42, Chapter 7 of Disaster Management Act 2005 to develop training modules and educational materials, undertake training, research, documentation and publication for capacity development and dissemination of knowledge / information related to disaster management, assist in formulation of policies, strategies and frameworks for disaster risk reduction as well as promote awareness among different stakeholders for enhancing human capacity to avoid, prevent, mitigate, prepare, respond and recover efficiently in a proactive, holistic and integrated manner.

The Institute has been organizing various training courses and conducting seminars / workshops / conferences covering wide spectrum of themes at the national and international levels besides publishing several training modules and other documents including case studies, templates and disaster reports.

NIDM has been trying to bring various stakeholders at one platform through activities like India Disaster Management Conference, National Platform for Disaster Risk Reduction, South Asia Policy Dialogue, East Asia Summit for Earthquake Risk Reduction and Asia Ministerial Conference for Disaster Risk Reduction for better networking, linkages and coordination. The recent declarations at the international levels during the 3rd World Conference on Disaster Risk Reduction at Sendai, Japan, Climate Change Summit and Sustainable Development goals during the year 2015 have also emphasized on collection action and integrated approach for Climate and Disaster Resilient Safer Sustainable Development.

### INTRODUCTION

Extreme weather includes unexpected, unusual, unpredictable, severe or unseasonal weather; weather at the extremes of the historical distribution—the range that has been seen in the past. Often, extreme events are based on a location’s recorded weather history and defined as lying in the most unusual ten percent. In recent years some extreme weather events have been attributed to global warming, with studies indicating an increasing threat from extreme weather in the future.

According to IPCC , annual losses have ranged since 1980 from a few billion to above US\$200 billion (in 2010 dollars), with the highest value for 2005 (the year of Hurricane Katrina). The global weather-related disaster losses such as loss of human lives, cultural heritage, and ecosystem services, are difficult to value and monetize, and thus they are poorly reflected in estimates of losses.

In India, the country has faced several extreme weather events including Mumbai Floods (2005), Leh Flash Floods (2010), Uttarakhand Flash Floods (2013), Uttarakhand Forest Fires (2013), Srinagar Flood (2014), Chennai Floods (2015), Drought conditions in southern states and cyclones etc. Therefore, the Institute has planned to organize 5 days national level training programme on extreme weather events.

The programme involves senior level resource persons, experts, professionals and functionaries who have very long and meaningful experiences with vast knowledge on the subject. During the training programme, there will be lectures, presentations, interactions and panel discussions on case studies related to recent disasters with examples of extreme weather events from India and abroad, sharing of ideas and expertise / skills related different modes of communication with scope, advantages and limitations as well as issues, challenges and opportunities in managing disaster events including the ethical perspectives. Government of India has laid down guidelines, procedures and protocols for reporting and responding to disasters. The programme will provide information about such documents and key important points to be considered in disaster risk reduction and resilience.

The representatives from Nodal Agencies and Experts in Disaster Management would elaborate on extreme weather related to disasters such as cloudbursts, cyclones, floods, dust storms, hail storms, heat waves, cold waves, forest fires, wild fires, landslides, avalanches, lightning etc. to apprise disaster management authorities and the communities likely to be affected about the potential disasters and the past history of the weather in the given locality.

It is expected that the programme would serve as a milestone for further actions in enhancing our capacities to reduce disasters and their impacts as part of the national goal to make the country disaster resilient.

- To enhance the human capacity for quick, effective and resilient Communities during Extreme Weather Events
- To identify the significant role of different stakeholders from various sectors in understanding and management of adverse extreme weather conditions
- To provide tools for disaster risk assessment, ranking and prioritization, risk reduction and resilience
- To improve education, training and awareness related to extreme weather events for decision makers, professionals, and common masses
- To discuss for an effective national strategy that can be applied at different levels across various sectors for efficient disaster risk reduction and resilience (DRR&R)
- To develop workable partnerships and linkages / networks among governance, administration, financial, legal and social Organizations as well as professional and other stakeholders from media and the public

### OBJECTIVES

At the end of the programme, the participants will be able to

1. To develop better understanding about extreme weather events

2. To assess the needs and gaps in understanding and management of extreme weather events
3. To promote linkages among stakeholders from disaster management authorities, government functionaries and communities
4. To explore possibilities for disaster risk reduction and resilience against extreme weather events including adaptation to changing weather conditions
5. To promote efficient, safe and resilient communities for climate change adaptation and disaster risk reduction

### TARGET GROUP

The target group for this programme would be senior level functionaries from the central and state governments representing various departments and organizations including Revenue and Disaster Management, SDMA, DDMA, SDRF, QRT, NDRF, ATIs, SIRDs, Irrigation and Flood Control, Agriculture and Drought Management, Meteorological studies and Monitoring, Disaster Mitigation, Development Planning, Policy and Management, Researchers, Academicians and other stakeholders working in this subject area.

### WHY THIS PROGRAMME?

Lack of adequate information and inappropriate understanding of the changing extreme weather events in different locations at different times have aggravated the losses and damages as well as prolonged the recovery process. Senior functionaries in disaster management, media and community organization can play a significant role in disaster risk management and loss reduction. The programme aims to fill this gap in a proactive mode through such efforts.

### ABOUT NIDM

National Institute of Disaster Management (NIDM), Ministry of Home Affairs, Government of India is a premium institute and a Statutory Body (under Disaster Management Act 2005) for training, research, documentation, awareness and human resources and capacity development in the field of disaster mitigation and management. The institute lays emphasis on multi-stakeholder interdisciplinary cross-sectoral approach for an efficient proactive continuum disaster risk management based on participatory integrated multi-risk management concept. It aims towards a disaster free / resilient India.

## VENUE AND DURATION

The programme will be held at NIDM South Campus, AP HRD Institute, Bapatla, District Guntur, Andhra Pradesh. It will commence at 9am on Monday, 6 August 2018 and will conclude at about 6pm on Friday, 10 August 2018. The duration of the training programme will be 5 days.

## REGISTRATION

The participants will assemble at the training venue at 9 a.m. on Monday, 6 August 2018 and will register themselves.

## PROGRAMME DETAILS

The programme details including the topics and the likely resource persons along with their contact details are given in the leaf on Tentative Schedule of the programme.

## EVALUATION OF THE PROGRAMME

The final session of the programme will be devoted to evaluation and valediction. The participants will be supplied with an evaluation Proforma, which may be completed and handed over to the Programme staff. A Certificate will be awarded to each participant on the successful completion of the programme.

## SUGGESTED READINGS

NDMA SOP for DM

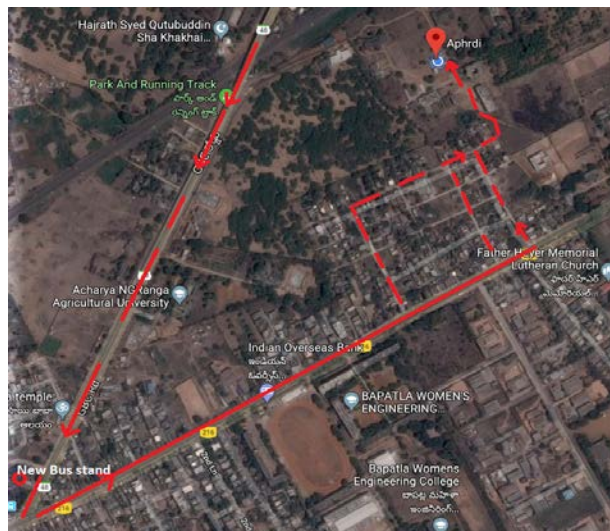
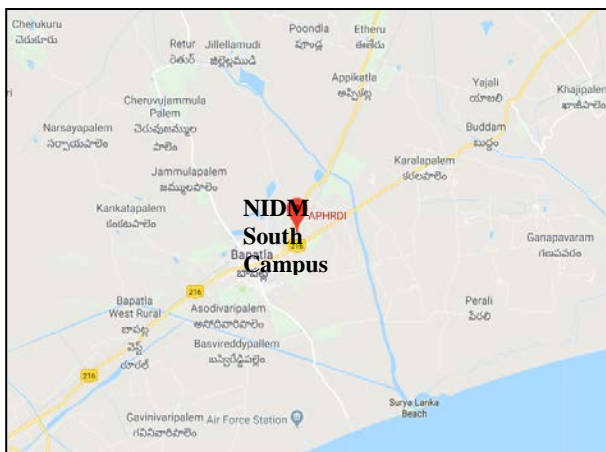
<http://www.ndma.gov.in/images/policyplan/NDMA-SOP-for-Disaster-Management.pdf>

SOP for Responding to Disasters

<http://ndmindia.nic.in/SOP-NDM-2010.pdf>

## HOW TO REACH TRAINING VENUE?

NIDM South Campus is located at AP HRD Institute (web address: [www.aphrdi.ap.gov.in](http://www.aphrdi.ap.gov.in)), Viswabrahmana Colony, Bapatla, District Guntur, Andhra Pradesh - 522101. The Institute is connected by a number of bus routes and a railway stations. The contact numbers are 9030012771; 9032012772; 9032012773; 9030012774.



## ORGANIZING TEAM

Supervision & Guidance: **Shri B.H. Anil Kumar, IAS**

**Executive Director, NIDM**

Course Coordinator: **Dr. Surya Parkash, Head,**

**KMCD & Hymet Disasters Division, NIDM**

Data Entry Operator: **Mr. Sumit Kumar Sharma, DEO, NIDM**

Logistic and Technical Support: **Mr. Anil Shekhawat, AC(Trg), NIDM**

**Mr. Avinash Pandey, Account Section, NIDM**

**Mr. S. S. Bisht, Accounts Section, NIDM**

**Mr. Hemant Kumar, Comp. Prog., NIDM**

## For further details or information, please contact the following:

**Dr. Surya Parkash, Ph.D., PGT (Geneva), PGT (Skopje), SDT (Ankara)**  
Head, Knowledge Management & Communication Division and  
Head (Additional Charge), Hydro-meteorological Hazards Division

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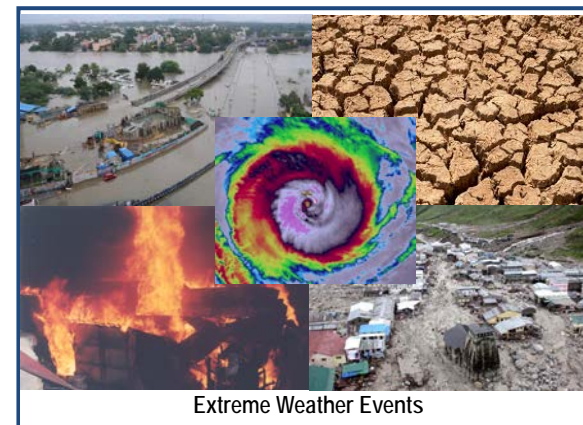
Website: [www.nidm.gov.in](http://www.nidm.gov.in)



## National Level Training Programme on

## EXTREME WEATHER EVENTS

(6–10 August 2018 at NIDM South Campus, APHRDI, Bapatla)



Extreme Weather Events

Organized by

**nidm**

Resilient India - Disaster free India

**National Institute of Disaster Management  
South Campus**

Venue: AP Human Resources Development Institute

Viswabrahmana Colony, Bapatla,

District Guntur, Andhra Pradesh - 522101

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Phone: 9030012771, 9032012772, 9032012773

Email: [surya.nidm@nic.in](mailto:surya.nidm@nic.in)

**Tentative Schedule for the National Level Training Course on  
EXTREME WAETHER EVENTS**

**during 6 – 10 August 2018 at NIDM South Campus, APHRD Institute, Bapatla, District Guntur, Andhra Pradesh – 522101**

**Web address of venue: www.aphrdi.ap.gov.in, NIDM website: www.nidm.gov.in**

Day / Date	Pre-Lunch Session (Time in hours)			Post-Lunch Session (Time in hours)				
	9:00 – 10:00	10:00-11:30		1400-1515	1530-1630	1630-1730		
<b>Monday, 6 August 2018</b>	Registration of Participants  <b>Sh. Sumit Kumar Sharma</b>	Welcome Intro by participants Course Intro Ground Rules Inaugural Address Vote of Thanks	<b>Tea (1130 – 1145 Hrs.)</b>	<b>1145-1300</b> Global Warming and COP on Climate Change  <b>Dr. Surya Parkash and IMD</b>	<b>LUNCH BREAK (1300 – 1400 Hrs.)</b>	<b>1400-1515</b> Regional Climate Trends and Issues  <b>IMD</b>	<b>1530-1630</b> Extreme Weather in Changing Climate  <b>IMD</b>	<b>1630-1730</b> Video on Climate Change  <b>Dr. Surya Parkash</b>
<b>Tuesday, 7 August 2018</b>	Recapitulation	Extreme Precipitation in Changing Climate – Cloudburst Incidences, Impacts and Issues  <b>Dr. Surya Parkash</b>		Case Study on Leh Flash Flood and Uttarakhand Flash Floods  <b>Dr. Surya Parkash</b>		Case Study on Chennai Floods  <b>TN SDMA</b>	DMS Network of ISRO (DSSP), Primary (VPN) and Secondary Video-conferencing nodes / Satellite, Navigational and Internet Protocols  <b>NRSC</b>	
<b>Wednesday, 8 August 2018</b>	Recapitulation & Group Photograph	Extreme Heat in Changing Climate – Heat Wave Incidences, Impacts and Issues <b>State Meteorology Centre</b>		Case Study on Heat Waves in Southern India  <b>AP SDMA / UNICEF</b>		Cyclones and Storms in Changing Climatic Conditions <b>State Meteorology Centre</b>	Drought Monitoring, Early Warning and Preparedness for Disaster Risk Reduction and Resilience in Changing Climatic Conditions	
<b>Thursday, 9 August 2018</b>	Recapitulation and Exercise	Climate Change and Landslides  <b>Dr. Surya Parkash</b>		Extreme Cold Waves and Avalanches in Changing Climatic Conditions  <b>Dr. Surya Parkash</b>		Satellite based Communication & Networks, VSAT, Satellite Phones,  <b>NDRF</b>	Visit to EOC / Control Room  <b>Control Room, NDRF / AP SDMA</b>	
<b>Friday, 10 August 2018</b>	Recapitulation	Orientation for Group Exercise  <b>Dr. Surya Parkash</b>		Conduct of Group Exercise  <b>Dr. Surya Parkash</b>		Presentation of Group Exercise by participants  <b>Dr. Surya Parkash</b>	Feedback and Evaluation  <b>Participants</b>	Valediction & Certification, Vote of Thanks  <b>NIDM</b>

**NATIONAL INSTITUTE OF DISASTER MANAGEMENT (NIDM)  
Ministry of Home Affairs, Govt. of India**

**Nomination Form**

**Name of the Programme:** National Level Training Course on “Extreme Weather Events”

**Date & Venue:** 6 – 10 August 2018 at NIDM South Campus, AP HRD Institute, Viswabrahmana Colony, Bapatla, District Guntur, Andhra Pradesh – 522101 (web address of venue: [www.aphrdi.ap.gov.in](http://www.aphrdi.ap.gov.in))

**Name of the Nominee:** \_\_\_\_\_

**Designation:** \_\_\_\_\_ **Age:** \_\_\_\_\_

**Name and Address of the Organisation:** \_\_\_\_\_

\_\_\_\_\_

**Residential Address:** \_\_\_\_\_

\_\_\_\_\_

**Telephone: STD Code:** \_\_\_\_\_

**Office:** \_\_\_\_\_ **Residence:** \_\_\_\_\_

**Mobile:** \_\_\_\_\_ **Fax:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Expectation from the Course:**

\_\_\_\_\_

**In what way do you think that this training will be useful for you?**

\_\_\_\_\_

**Accommodation requirement during training (Required/Not required)**\_\_\_\_\_

**Date:** \_\_\_\_\_

**Name, Designation and  
Signature of the Nominating Authority**

(Please fill all the details in Nomination form for NIDM data base record)