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DEVELOPMENTS IN DISASTER MANAGEMENT



High Powered Committee set up in August 1999.

Until 2001 – Responsibility with Agriculture Ministry.

Transferred to Ministry of Home Affairs in June 2002.

National Disaster Management Authority established 28th September 2005.

Inclusion of Disaster Management in the Seventh Schedule of the Constitution.

On 23 December, 2005, Disaster Management Act .



DISASTER RESPONSE



3-Tier Mechanism

- I. National Level – NDRF (Defence, CAPFs & other Central Agencies as & when required)
- II. State Level – SDRF & other State Agencies
- III. District Level – Civil Admn, Local Police, Civil Defence, Fire & Emergency Services, Home Guards etc. (also Local Community, NGOs, Voluntary Agencies)



DETAILS OF THE DISASTER RESPONDERS



NAME OF ORGANIZATION	STRENGTH
NDRF	>12000
SDRF	6,000
Civil Defence	5,60,000
Home Guards	4,50,000
Fire and Rescue Services	1,25,000

MHA, GOVT. OF INDIA

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graph TD; A[MHA, GOVT. OF INDIA] --> B[NDMA CONTROL ROOM]; B --> C[NDRF HQ CONTROL ROOM]; C --> D[UNIT CONTROL ROOM]; D --> E[STATE CONTROL ROOM]; D --> F[DEPLOYED COY CONTROL ROOM]; D --> G[IMPORTANT STAKE HOLDERS];
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NDMA CONTROL ROOM

NDRF HQ CONTROL ROOM

UNIT CONTROL ROOM

STATE
CONTROL ROOM

DEPLOYED COY
CONTROL ROOM

IMPORTANT STAKE
HOLDERS



NDRF : UNIQUE FORCE



- Multi-disciplinary, multi-skilled, high-tech, specialist Force, capable of responding to any natural disaster or CBRN emergency.
- Response time reduced to the barest minimum with the Concepts of
 - 'Proactive availability' to States
 - 'Pre-positioning' in threatening disaster scenario
- Stand alone Dedicated Disaster Response Force trained & equipped as per international standards.



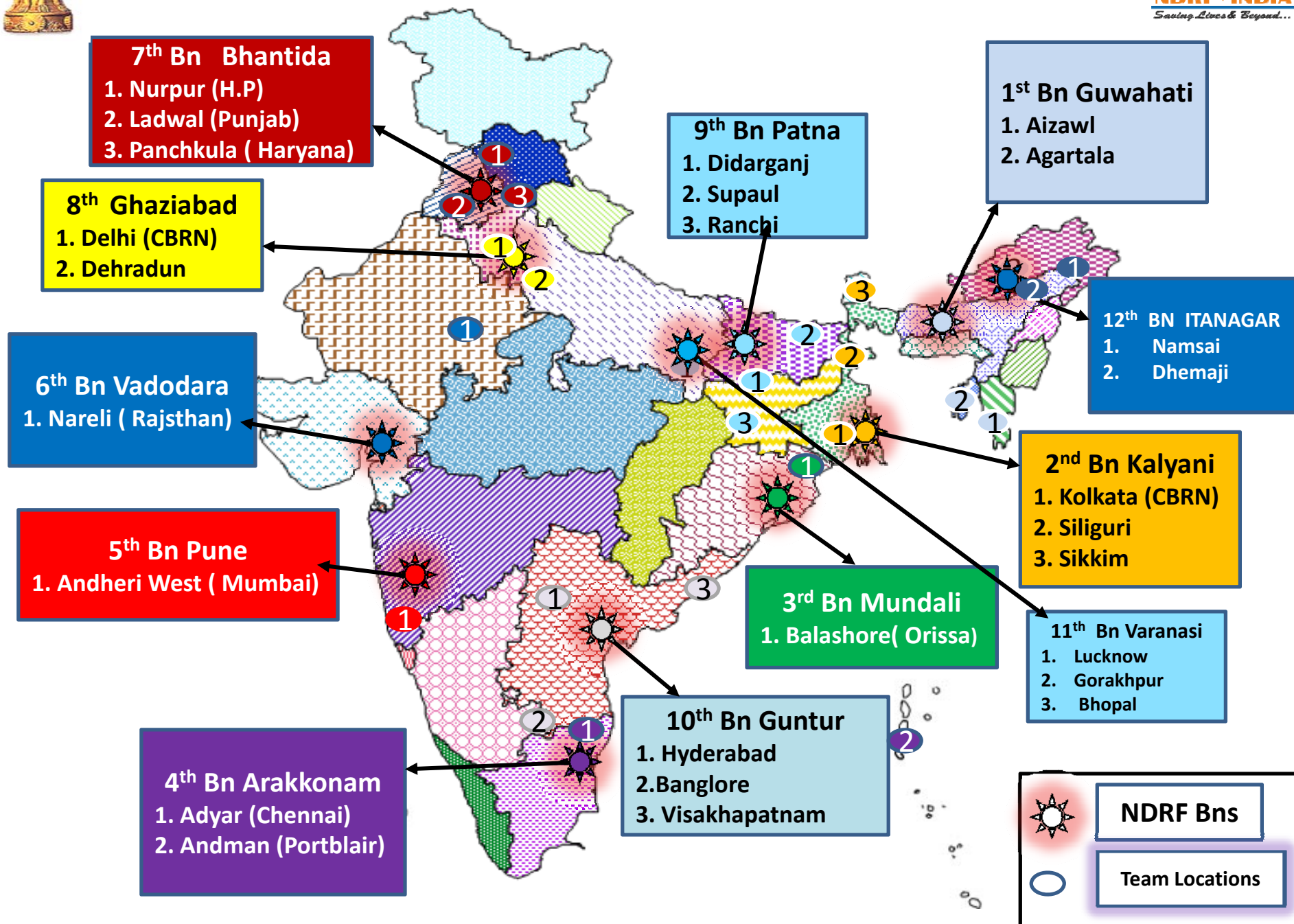
NDRF : UNIQUE FORCE



- **Located at 12 different places in the country based on vulnerability profile of the region.**
- **Teams placed at 26 cities and covering entire country.**
- **All Bns trained and equipped for all natural disasters and for CBRN emergencies.**
- **Capable of carrying out disaster response operations within the Country, in the region & Internationally.**



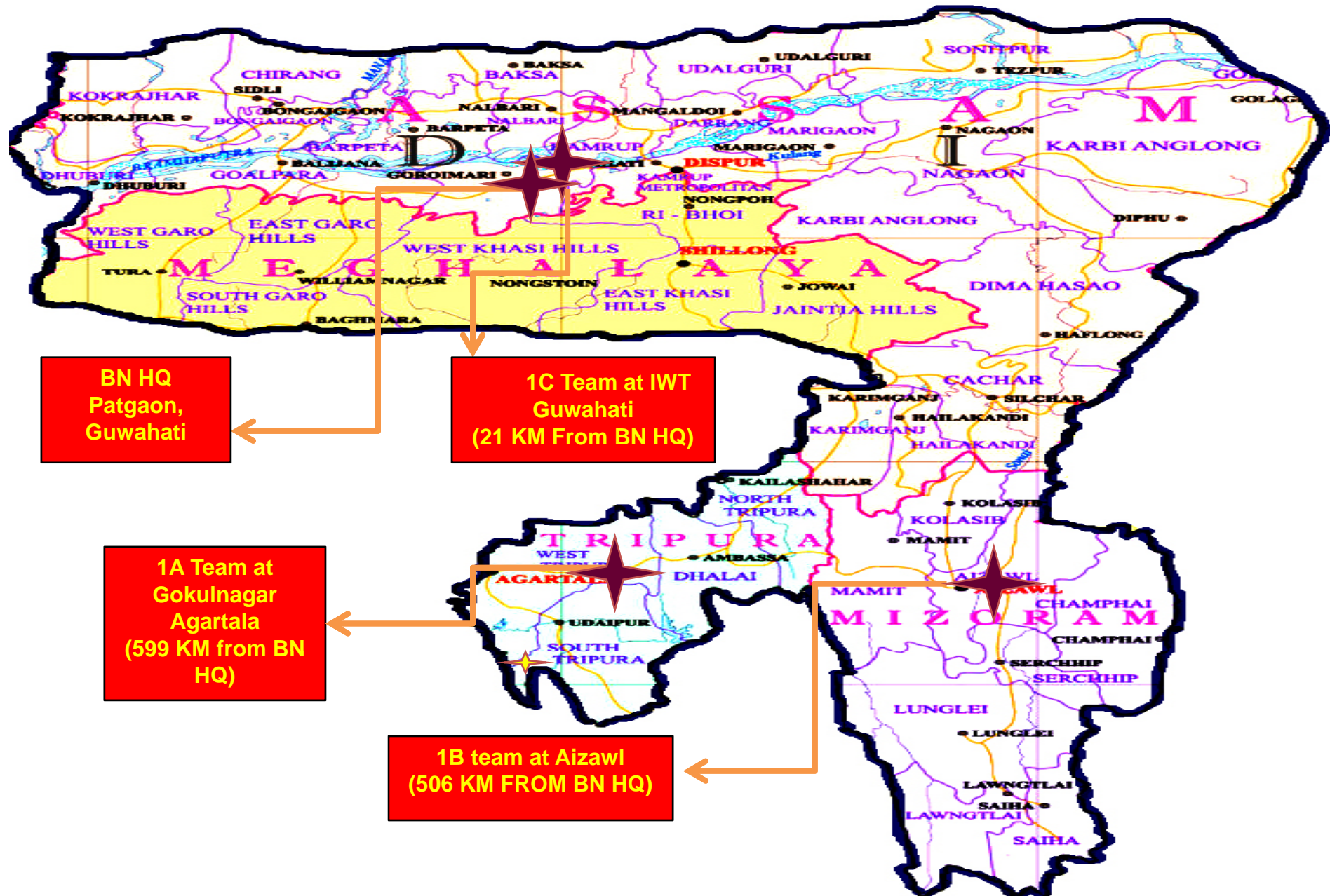
NDRF – BNs & TEAMs LOCATIONS



Permanent Deployment of SAR teams

S/No	Deployment of teams	From
1	East Gokulnagar, Distt-Sipahijala, Agartala (Tripura) for emergency response.	27.10.13
2	Lungverh, Aizawl for emergency response.	18.02.14
3.	UzanBazar Ghat , Guwahati, Assam	11.09.2010

Permanent Team Locations





NDRF: COMPOSITION



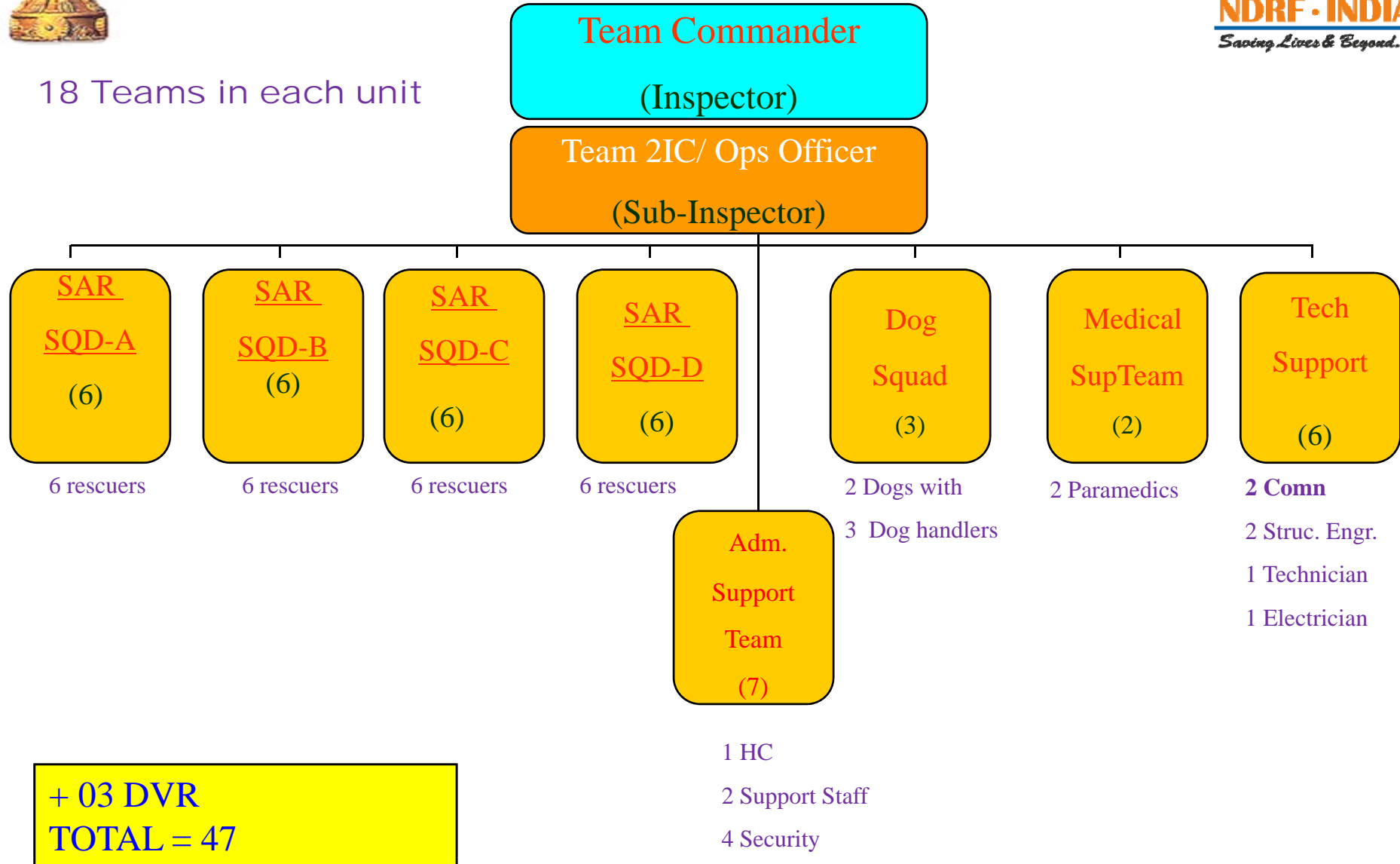
- **Each Bn has a strength of 1149 personnel.**
- **Each Bn has 18 self-contained specialist teams of 47 members.**
- **Each team comprises of specialist manpower viz. Medical Officers, Engineers, Paramedics, Technician, Electrician and dog squads.**



COMPOSITION OF A RESCUE TEAM



18 Teams in each unit

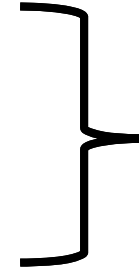




NDRF- ROLES AND RESPONSIBILITIES



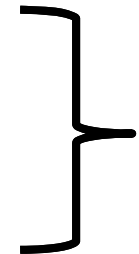
To launch specialized response to disaster



During disaster



Proactive deployment during threatening disaster situations



Threatening disaster situations



NDRF- ROLES AND RESPONSIBILITIES



- ❖ Acquire and continually upgrade its own training and skills
- ❖ Impart basic and operational level training to State Response Forces (SDRF, Police, Civil Defense and Home Guards)
- ❖ Assist in community training & preparedness
- ❖ Liaison, reconnaissance, rehearsals and mock drills

**Non –
Disaster
Period**



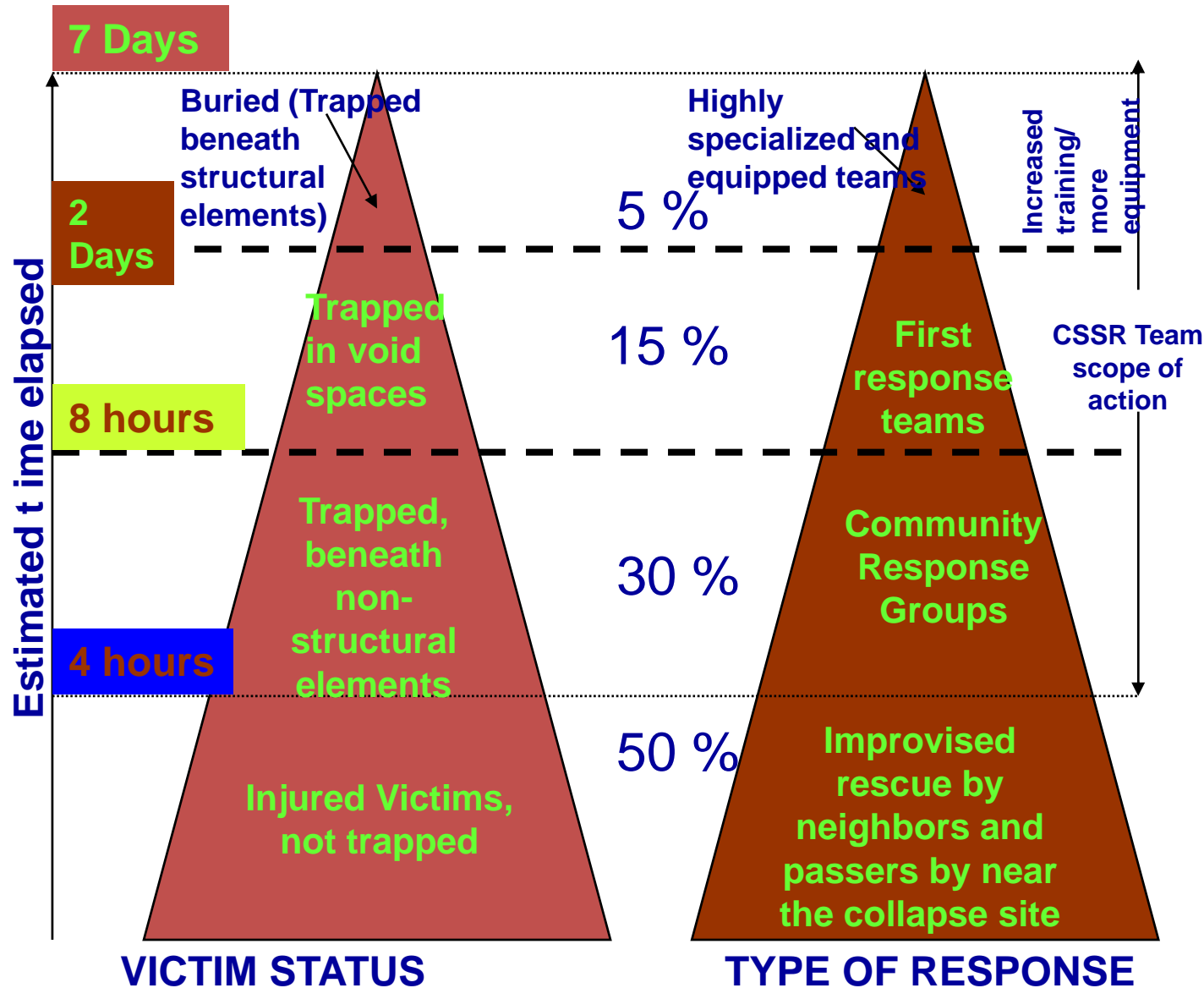
NDRF : CAPABILITIES & STRENGTH



- ✓ **NDRF personnel fully trained & capable in**
 - **CSSR (Collapsed Structure Search & Rescue) operations.**
 - **MFR (Medical First Response)**
 - **Trained & equipped to deal with CBRN emergencies**
 - **Flood And Mountain Rescue Operations**
 - **Deep Diving Search & Rescue**
 - **Canine and Technical Search**
 - **Animal disaster response**



CSSR RESPONSE





CAPACITY BUILDING INITIATIVES



Community Capacity Building & Awareness

- **Engaging in community capacity building and public awareness programme.**
- **NDRF personnel have trained and sensitized about 3.4 million people under these programme.**
- **The target groups are villagers, local people, school children, National Cadets Corps & Local Government.**



CAPACITY BUILDING INITIATIVES



Other Capacity Building Initiatives

- Mock Exercises in association with the various stakeholders on various disasters (Industrial Disasters, Urban Flooding, Cyclones, Earthquake simulation, Train accidents etc) .
- Participated in over 450 mock exercises.
- Workshops, seminars & campaigns.



NDRF ENDEAVORS IN NATIONAL / INTERNATION DISASTERS



Proactive availability and pre- positioning of NDRF synergized in disaster risk reduction during National/ International emergencies. NDRF has saved more than 5,52,018 lives in various disasters within country and abroad.

National Disasters

- **Kosi Flood (Bihar) 2008 .**
- **Sikkim Earthquake 2011.**
- **Assam Flood 2012.**
- **Uttrakhand Cloud Burst 2013.**
- **Cyclone Phailin 2013**
- **Jammu & Kashmir Flood 2014.**
- **Cyclone Hudhud 2014.**
- **Malingaon Landslide 2014**
- **Chennai Flood 2015.**
- **Cyclone Vardah 2016**

International Disasters

Earthquake / Tsunami Japan 2011.

Boat Capsize (Bhutan) 2014.

Nepal Earthquake 2015.



INTERNATIONAL RESPONSE OPERATION



Japan

- March 11, 2011
- One team of NDRF (46 personnel) deployed in Onagawa, Japan.
- Working in sub-zero temperature, recovered 7 dead bodies and Japanese currency worth 50 million yen.
- Role widely appreciated by the Japanese Government.



JAPAN OPERATION, 2011





JAPAN OPERATION, 2011





INTERNATIONAL RESPONSE OPERATION BHUTAN



- **8 March, 2014**
- **One team of NDRF (46 personnel) responded to a boat capsized incident in river Gongri, Bhutan**
- **Role widely appreciated by the Bhutanese Government.**



INTERNATIONAL RESPONSE OPERATION BHUTAN





INTERNATIONAL RESPONSE OPERATION NEPAL EARTHQUAKE



**Occurrence: On 25th April, 2015 at 11:56 Hrs.
Magnitude - 7.8**

No. of teams deployed	: 16 teams
Date of operation	: 25th April to 04th May, 2015
Achievement	: Rescued - 11 pers Retrieved - 133 dead bodies
Medical assistance provided	: 1219 persons.



INTERNATIONAL RESPONSE OPERATION NEPAL EARTHQUAKE





INTERNATIONAL RESPONSE OPERATION NEPAL EARTHQUAKE





NATIONAL DISASTER RESPONSE RESERVE



- Govt of India has earmarked Rs 250 Crores for purchase of National Disaster Response Reserve (NDRR)
- NDRR stores would be purchased for managing two major disaster if occur simultaneous to cater for 4,00,000 disaster victims.
- NDRR (NER) amounting Rs 24.60 Crores have been purchased and kept at NDRF Battalions locations.



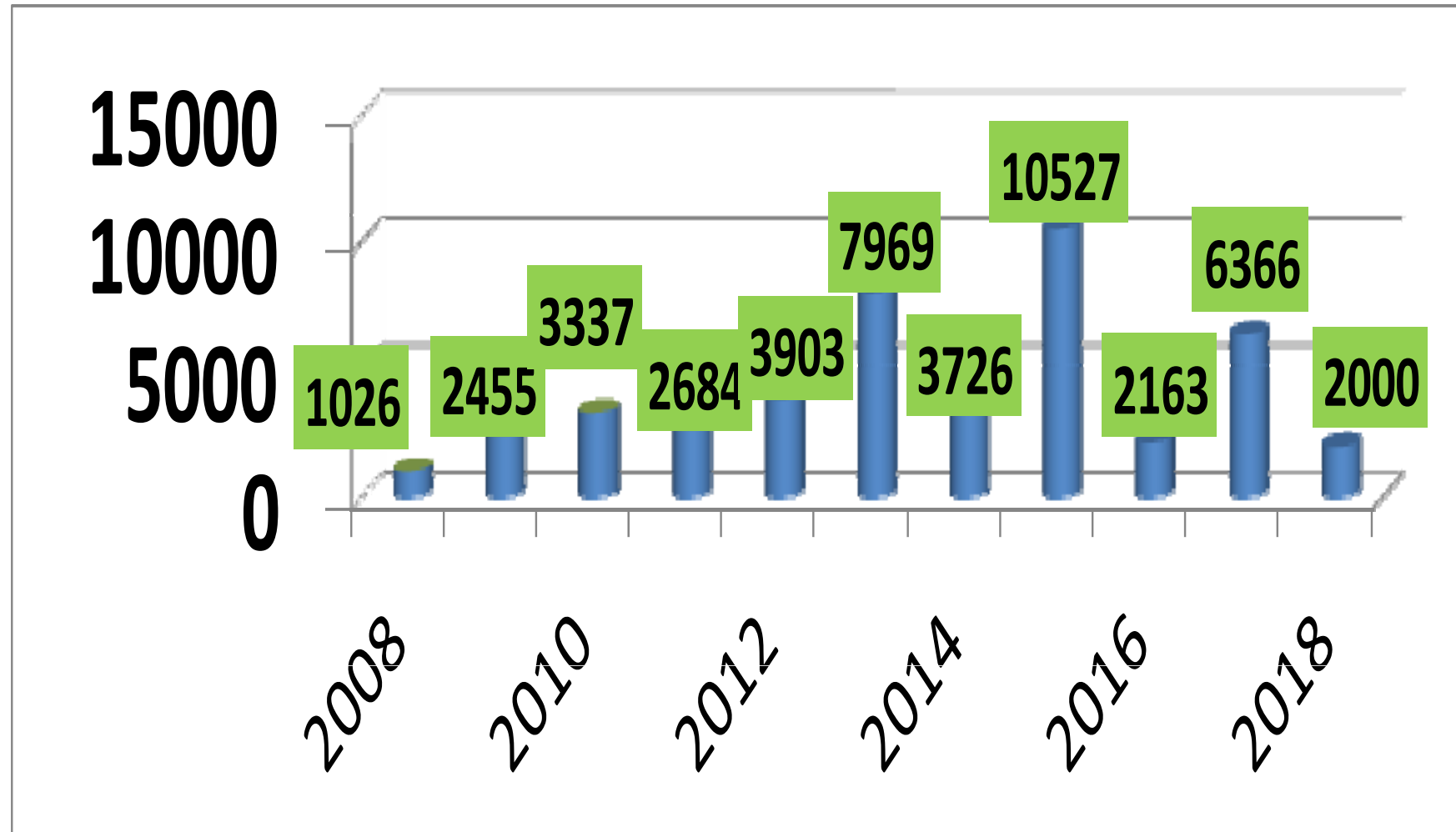
BEST PRACTICES IN NORTH EAST



- **FAMEx**
- **CAP**
- **CBP**
- **Pre positioning of teams**
- **Table top and mock exercises**
- **Workshops**
- **Exhibitions and demonstrations**
- **Self sufficient teams in all respect for 3 days.**



CAPACITY BUILDING PROGRAMME -386 NOS (PERS BENEFITED- 46,154)





COMMUNITY AWARENESS PROGRAMME- 2072

PERSONS BENEFITTED – 7,73,405

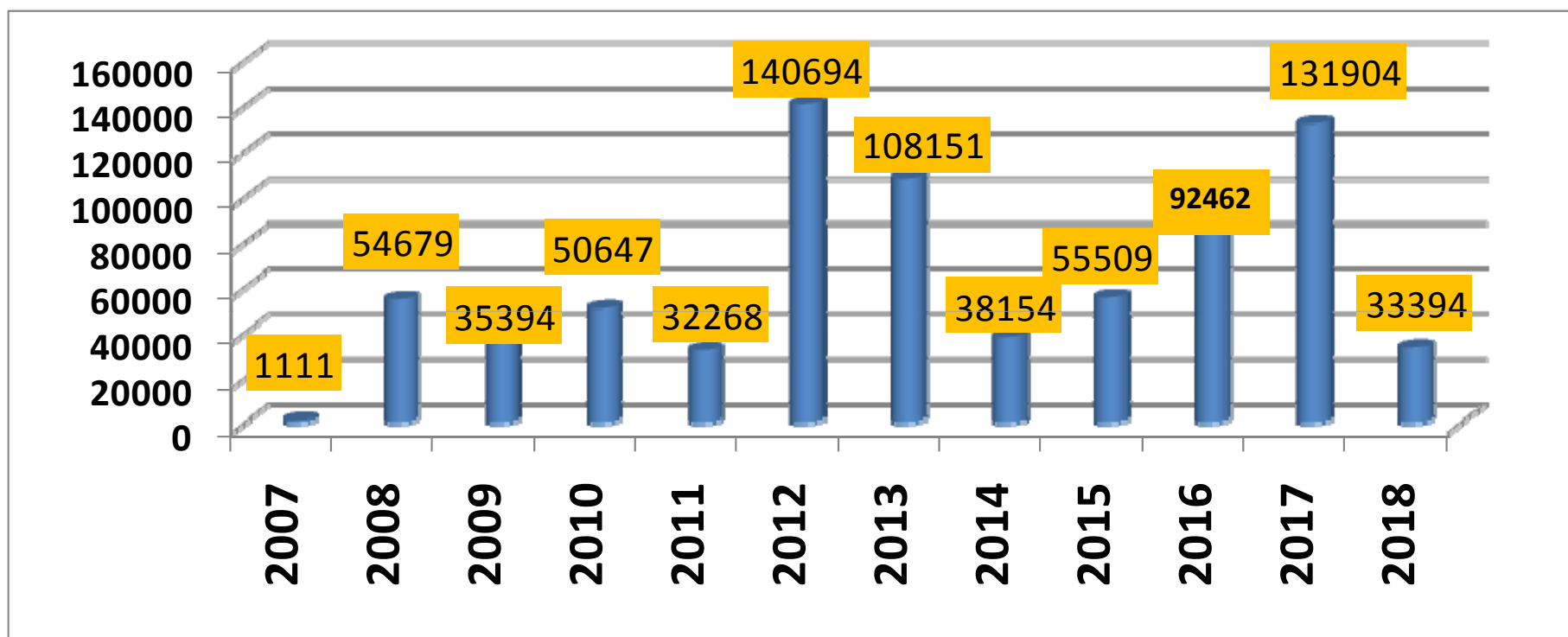
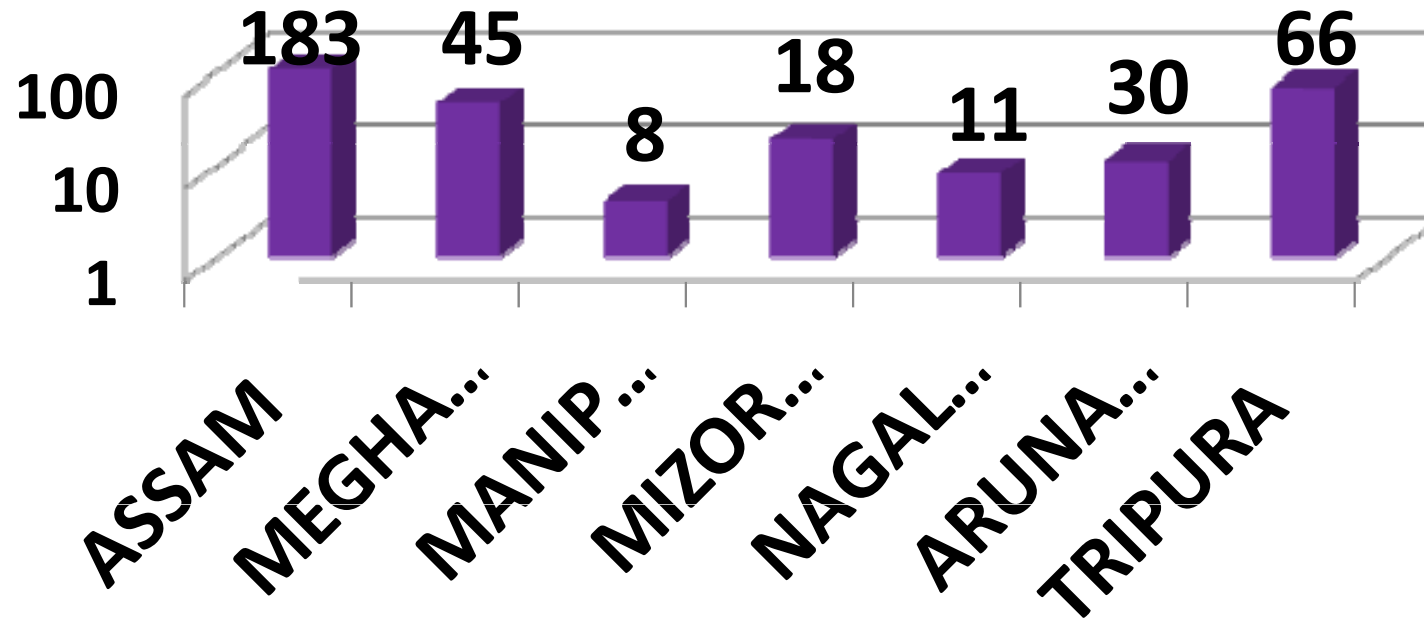




TABLE TOP/MOCK EXERCISES – 360 NOS





MOCK EXERCISES IN NORTH EAST



Mega Mock Drill 10-13 March 2014

- The multi State mega drill was conducted by NDMA in association with the SDMA of all the eight North Eastern states and NDRF.
- Inter state discussion on Mw 8.1 Shillong 1897 Earthquake Scenario.
- To check the preparedness, response mechanism and inter department coordination of various stake holders in case of Mega Earthquake Disaster in North Eastern region.



MOCK EXERCISES IN NORTH EAST

Mega Mock Drill 10-13 March 2014





MOCK EXERCISES IN NORTH EAST



Multi State Mega Mock Exercise 24-26 Apr 2018

- The multi State mega drill was conducted by NDMA in association with the SDMA of Tripura, Mizoram and Nagaland and NDRF.
- 04 teams of NDRF from Guwahati and Itanagar responded on the Earthquake Scenario.
- Approx 3500 personnel of states and district authorities, volunteers, NGOs participated.



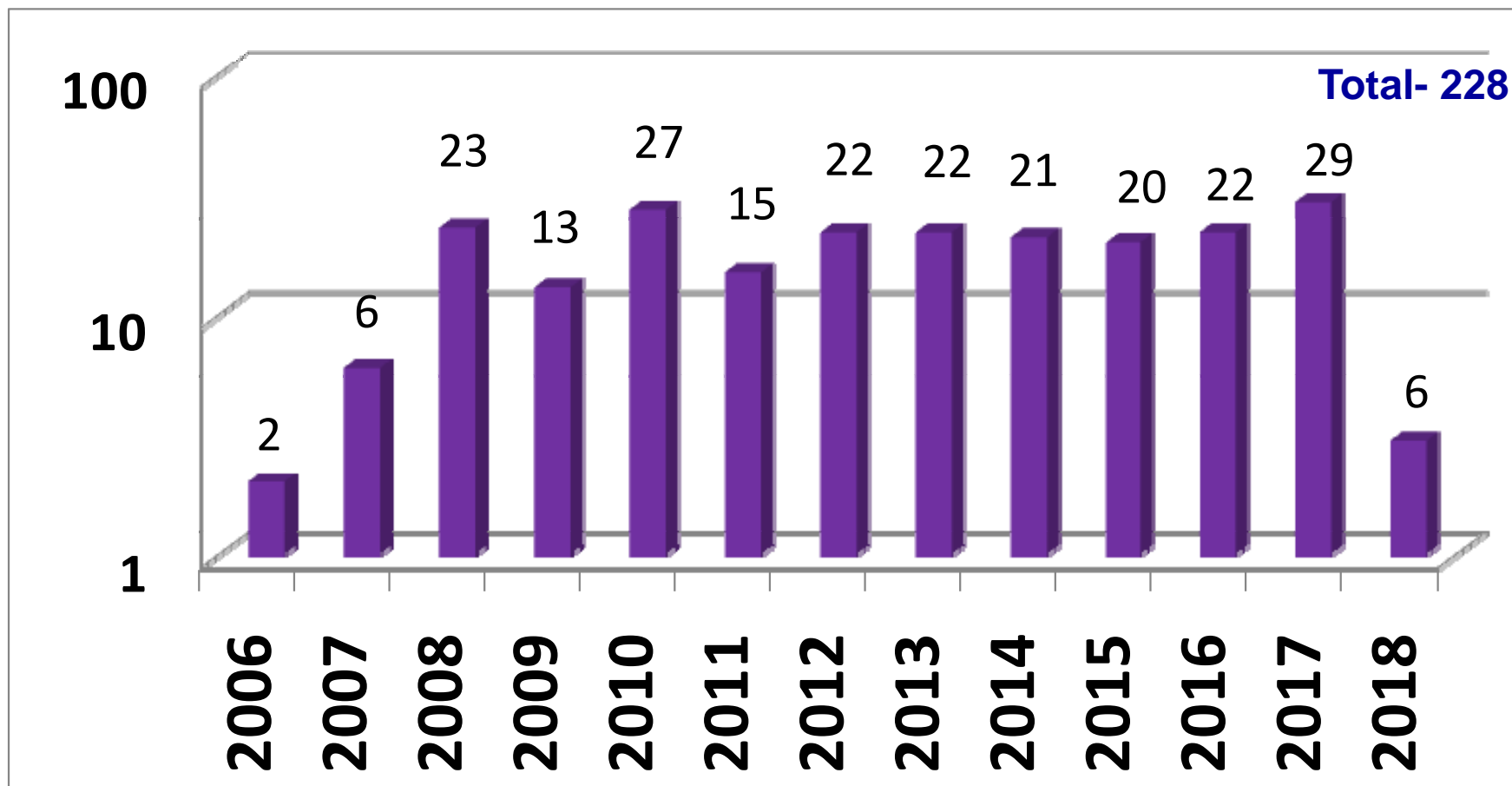
MOCK EXERCISES IN NORTH EAST

Multi State Mega Mock Exercise 24-26 Apr 2018





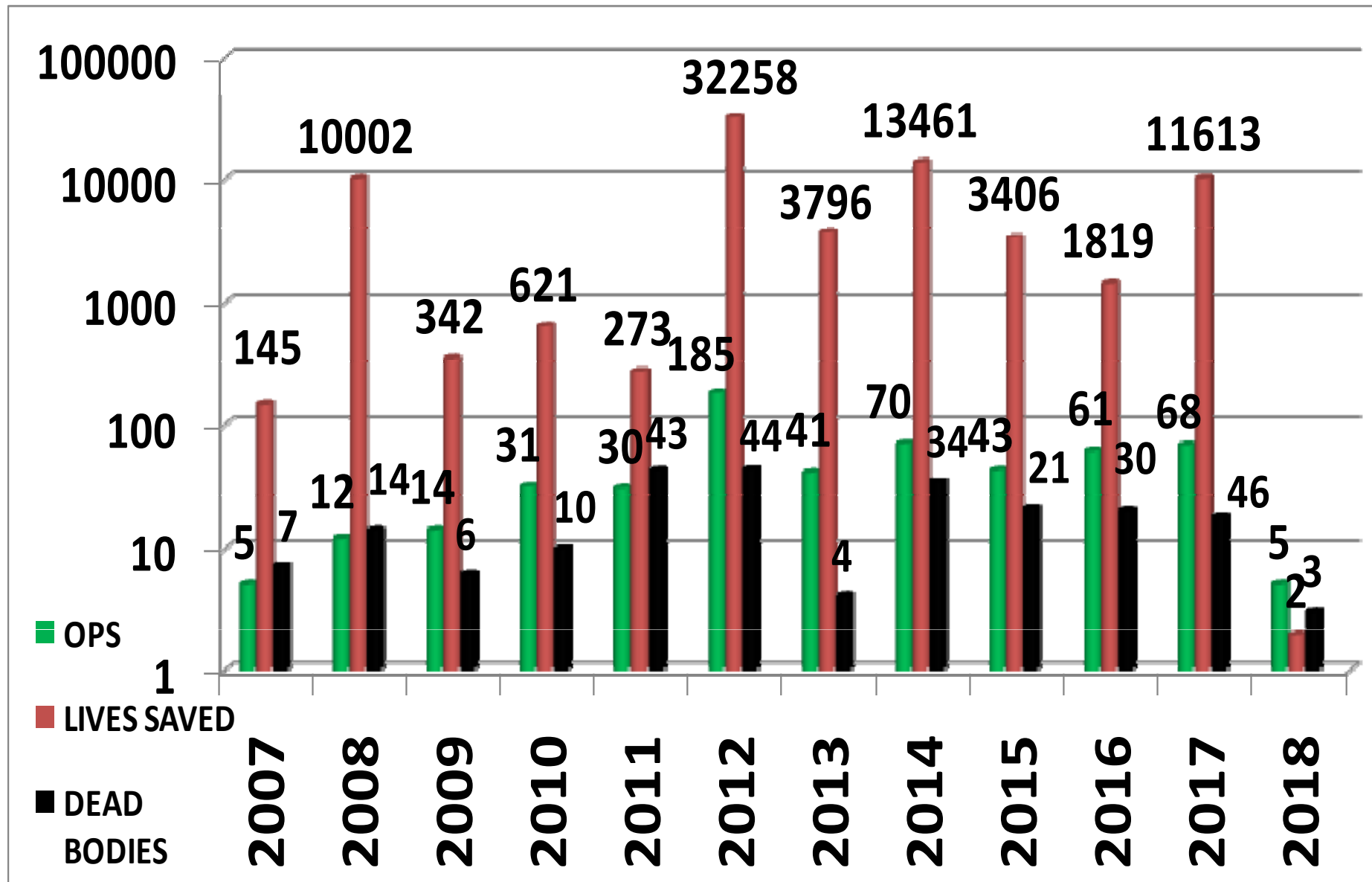
FAMEx IN NORTH EAST





RESCUE OPS-633 NOS

LIVES SAVED/EVACUATED-77,738 PERS





NDRF - OPS IN NORTH EAST



Boat Capsize incident 30 Apr 2012

At Medertari, distt Dhubri (Assam), a terrible storm caught the ferry carrying passengers hit the shore with big smash.

Operation required special skills of deep divers because the area of search was very large and flow of current was high.

19 dead bodies were retrieved by NDRF rescuers.



NDRF - OPS IN NORTH EAST



Boat Capsize incident 30 Apr 2012





NDRF - OPS IN NORTH EAST



Assam floods 2012: 27-30 June 2012

In Tinsukia and Sonitpur districts of Assam embankments of Brahmaputra river were breached at 43 places.

12 NDRF Team evacuated 9471 flood victims and distributed 340 quintals of flood relief material to 1423 families.



NDRF – OPS IN NORTH EAST



Assam floods 2012: 27-30 June 2012





NDRF - OPS IN NORTH EAST



landslide ops in Manipur: 01-05 Aug 2015

A massive landslide occurred at village Joumol under PS Morchang, distt Chandel (Manipur) on 01 Aug 2015.

NDRF Team NDRF Team was airlifted by MI-17 Chopper and it operated in extreme hard conditions and evacuated 04 dead bodies.



NDRF - OPS IN NORTH EAST



landslide ops in Manipur: 01-05 Aug 2015





NDRF - OPS IN NORTH EAST



North East floods 2017

In Barpeta Sonitpur Bongaigaon, Dhemaji and Lakhimpur districts of Assam.

NDRF Team evacuated 8001 flood victims and distributed medicines to 230 families.



Assam Flood-2017





Tripura Flood-2017





Medical camp-2017





Mobile Veterinary Camp





Relief Distribution in Assam Flood 2017





OPS/TRG ACTIVITIES OF NDRF IN MEGHALAYA



- **Evacuated 3890 personnel and recovered 09 dead bodies in different operations since 2011.**
- **More than 57,000 personnel benefitted during 150 Community Awareness Programme (CAP) in last 10 yrs.**
- **3145 personnel benefitted during 50 CBP in last 10 yrs**



OPS/TRG ACTIVITIES OF NDRF IN MEGHALAYA



- Carried out 35 FAMEx and Participated in 45 mock drills in last 10 years.
- DM training to 100 SDRF personnel in Meghalaya at CTI Mawdiang and NEPA.
- Trained 86 personnel of Meghalaya police at NEPA in Disaster Response in last 6 years.



MEGHALAYA- IMPORTANT OPS



Drowning Incident of British National 27-28 June 2011

**In river Umkynsan at Nohriat Sohra near Cherrapunji,
Distt-East Khasi Hills (Meghalaya)**

**NDRF Team recovered dead body of British Tourist
Christina Reed and handed over to Meghalaya police.**



MEGHALAYA- IMPORTANT OPS



Drowning Incident of British National 27-28 June 2011





MEGHALAYA- IMPORTANT OPS



Coal Mine Collapse Incident 11-13 July 2012

Rangsa Awe area under Nangalbilra Police Stn, South Garo Hills, Baghmara (Meghalaya)

02 teams of NDRF carried out search & rescue ops in 80 feet deep coal mine using deep divers but no dead or live victim found.



MEGHALAYA- IMPORTANT OPS



Coal Mine Collapse Incident 11-13 July 2012





MEGHALAYA- IMPORTANT OPS



Drowning Incident 11-13 Oct 2012

**A Nullah outside BSF Campus, Umpling, Shillong
(Meghalaya)**

**NDRF Team carried out search ops and recovered 03
dead bodies**



MEGHALAYA- IMPORTANT OPS



Drowning Incident 11-13 Oct 2012





MEGHALAYA- IMPORTANT OPS



landslide Operation 24-27 Sep 2014

In village Minadoba, Medipathar Kharkutta, Distt. North Garo Hills,(Meghalaya)

In a difficult ops NDRF team recovered 04 dead bodies ie Tangkame M. Momin (Female age 17 yrs), Bobita M. Momin (Female age 26 yrs), Rasdila M. Momin (Female age -10 yrs) and Prasasina M. Momin (Female age-45 yrs) all resident of village- Menadoba.



MEGHALAYA- IMPORTANT OPS



landslide Operation 24-27 Sep 2014





MEGHALAYA- IMPORTANT OPS



Flood Rescue & Relief Ops 24-30 Sep 2014

In areas of Distt. North Garo Hills and West Garo Hills (Meghalaya)

NDRF Team evacuated 3739 flood affected victims in areas of North Garo Hills and 151 victims in West Garo Hills to safer place.

Team also distributed relief materials to 1024 flood affected families.



MEGHALAYA- IMPORTANT OPS



Flood Rescue & Relief Ops 24-30 Sep 2014

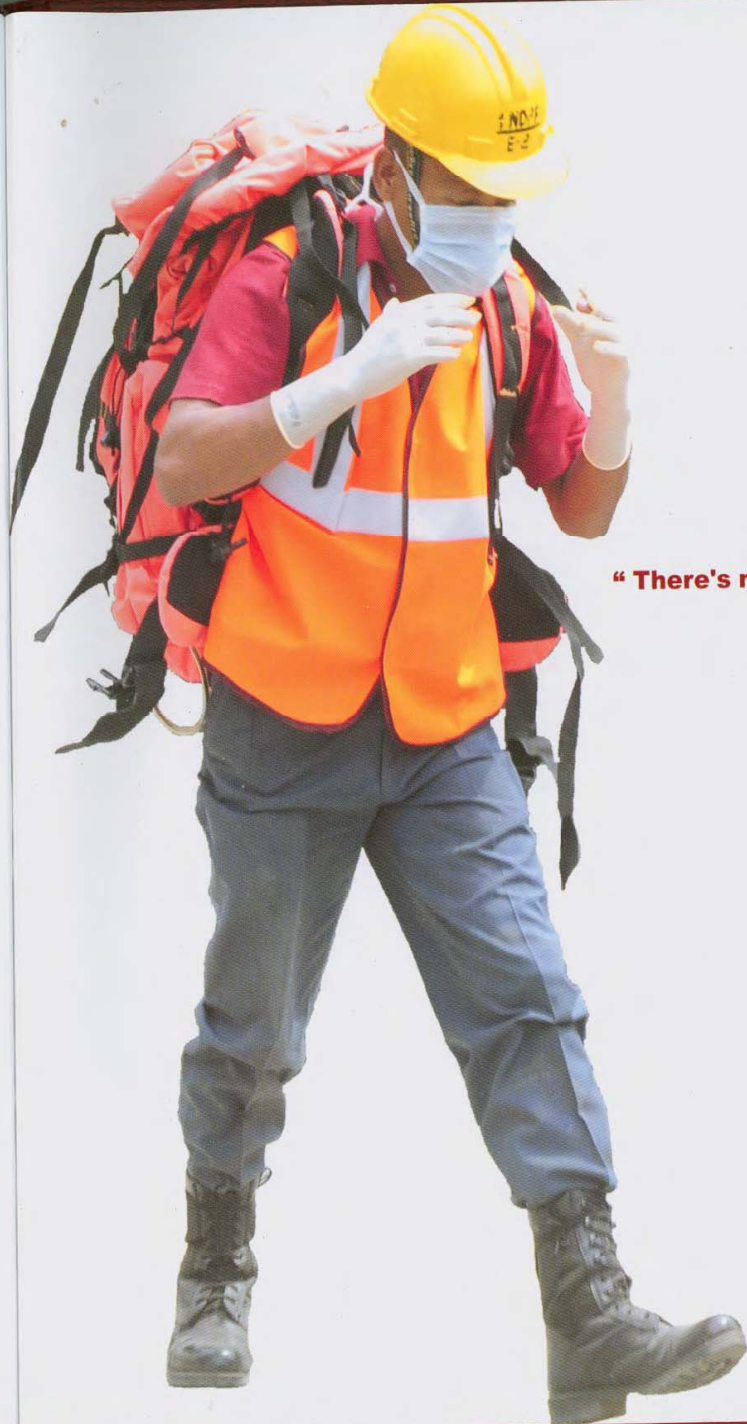




SUGGESTIONS



- **Community Response-** additionally trained people could mean the difference between life or death for many others in the event of a disaster.
- **SDMA Meghalaya** is reluctant in conducting Familiarization exercises by NDRF teams which is a helpful tool in reviewing the Hazard Vulnerability Assessment (HVA) and strengthen your planning.
- **Identify the criticality of backup communications and fuel planning.**



**“ There's no harm in hoping for the best as long as you're prepared for the worst.”
— Stephen King**

THANK YOU

