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Government of India-United Nations Development Programme

Disaster Risk Reduction Programme

(2009-2012)

PROGRESS REPORT

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DISASTER RISK REDUCTION PROJECT (2009-2012)

Background

The GoI-UNDP Disaster Risk Reduction (DRR) Programme started in the year 2009 by selecting all the states for implementation and selected 56 cities of the country with an outlay of \$20 million (Rs. 100 Crores approx.) for the period 2009-2012. Based on the evaluation of the performance of the states, the number of DRR states was reduced to 24 in 2011, and further reduced to 19 in 2012. At present, 43 cities are being covered under the programme. The DRR Programme, apart from sustaining the capacities developed under the previous Disaster Risk Management Programme (2002-2009), aimed at supporting Central and State Governments by providing critical inputs that would enhance the efficiency and effectiveness of the efforts in Disaster Risk Reduction. The Programme strives to strengthen the institutional structure to undertake Disaster Risk Reduction activities at various levels and develop preparedness for recovery. These were being implemented through the following 2 projects.

Disaster Risk Reduction, implemented by National Disaster Management Authority (NDMA)

Under this project efforts have been made to strengthen the State and District Disaster Management Authorities (DMAs) to reduce disaster risk proactively, and implement timely, sustainable, and locally relevant recovery activities in post-disaster situations. The emphasis was on institution-building and technical capacity-building, including those of NGOs, private sector and academia.

Urban Risk Reduction, implemented by Ministry of Home Affairs (MHA)

The programme has a significant focus on urban risk reduction, which encompasses risk assessments, emergency preparedness and response. The program strives to contribute to a strong regulatory framework for applying mitigation measures related to land-use planning and building codes.

URBAN RISK REDUCTION (URR)

Coverage: During 2009-2010 the project was implemented in 56 cities. Based on review of the progress achieved at the city level, the number of project cities was reduced to 48 in 2011 and 43 in 2012. Human Resource Support had been provided at the city level for technical assistance since 2010. It was decided by the Ministry in March 2012 that overlapping cities and districts under the DRR and URR Projects will have only one Project Support Associate to provide implementation support. Technical support for amendment of building byelaws was also provided through a consultant till June 2012.

2009-2010	2011	2012
56 cities	48 cities	43 cities

A report capturing the cumulative progress achieved since 2009 Main Result Areas is given below.

MAIN RESULT AREA I: INSTITUTIONAL STRENGTHENING

➤ Preparation of City Disaster Management Plan

Out of 56 cities covered under URR Project, draft plans are available in 45 cities. These plans are being reviewed and updated by the Municipal Corporations and City Administrations.

S. No.	Administrative division	Covered under URR Project	No. of Draft Plans
1	City	56	45
2	Wards	10-15 vulnerable wards in each city	564

The Municipal Corporation of *Bhiwandi city*, Maharashtra has prepared a **Housing Society Safety Plan and Hospital Safety Plan** on a model basis with support provided under the URR Project.

EOC Strengthening

Emergency Operation Centers (EOCs) in 39 cities have been established and strengthened for effective coordination and disaster response.

➤ Strengthening of Emergency Support Functions

A technical study on Early Warning System was undertaken with support from Bureau of Crisis Prevention and Recovery (BCPR) in coastal city of Vijayawada in Andhra Pradesh. City DM cell in Trivandrum, Kerala has been established with support provided under the URR Project. Support has been provided to the city administrations to strengthen Emergency Operations Centres.

S.no	Activities	Progress
1	No. of Emergency Operation Centers established at the city level	39

MAIN RESULT AREA II: CAPACITY BUILDING

Under the URR Project, capacities of architects, engineers and masons in ***seismically safe construction practices and Rapid Visual Screening of Masonry Buildings*** were developed. Training of government functionaries such as officials of various line departments and Urban Local Bodies have been conducted on the ***development of Disaster Management Plans*** and various aspects of disaster management. ***School Safety*** has been another priority area under which school fraternity including administrative staff, school teachers, children and parents have been trained, oriented and sensitized on various aspects of disaster preparedness such as ***preparation of school disaster management plans, basics life saving techniques such as search & rescue, first-aid etc. Regular mock drills*** have been carried out to test the preparedness levels. More than 700 school disaster management plans have been prepared at the city level.

Capacity building initiatives of other stakeholders such as **volunteers, members of Youth Clubs, NGO representatives, Doctors, Nurses, Hospital administration staff, Para-medicos, Aanganwadi workers, Self Help Groups** as well as local community have been undertaken in URR cities. These stakeholders have been trained on disaster management, dos and don'ts, trauma care, hospital safety, first-aid, search & rescue etc.

The cumulative progress at the city level till date is captured below:

S.no	Activities	Progress
1	No. of teachers trained on School Safety	7775
2	No. of School DM plans prepared	706
3	No. of Cities implementing Hospital Safety Initiatives	21
4	No. of doctors and other hospital staffs sensitized/trained on Medical Preparedness	711
5	No. of Hospital DM plans prepared	11
6	No. of Cities that have conducted orientation programmes for Mayors/Elected Representatives/Govt. officials on Disaster preparedness and response	45
7	No. of Mayors/Elected Representatives/Govt. Officials oriented/sensitized	4653
8	No. of Engineers and Architects trained	1896
9	No. of Masons trained	362
10	No. of Volunteers trained on Disaster Management	6227
11	No. of SHG members trained	3788
12	No. of Sanitary workers trained	1403
13	No. of Aanganwadi workers training on First Aid	215

The School Disaster Management Plans prepared under the URR project in Assam (1 school), Mizoram (1 school), Shimla (2 schools) and Odisha (1 school) were selected as best school DM plans by NIDM.

MAIN RESULT AREA III: MAINSTREAMING DISASTER RISK REDUCTION IN DEVELOPMENT

The URR cities have taken initiatives to promote mainstreaming efforts in various nodal administrative departments. Officials of health, infrastructure, and urban development departments have been sensitized on the importance of integrating disaster management in the development agenda. The state of Uttar Pradesh has undertaken capacity building for mainstreaming in Sarva Shiksha Abhiyan (SSA),

Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA) and Jawaharlal Nehru Urban Renewal Mission (JNNURM).

➤ **Hazard Risk and Vulnerability Assessment**

Hazard risk vulnerability assessment (HRVA) has been undertaken in 34 cities. A template has been developed for undertaking HRVA for urban areas with technical support from Bureau of Crisis Prevention and Recovery (BCPR). Preliminary HRVA report has been completed in Nainital, Gangtok, Tirucherpalli, Madurai, Lucknow and Nasik.

S.no	Activities	Progress
1	No. of City level HRVA initiated	34
2	No. of City level HRVA completed	10

➤ **Development of national models/tools/guidelines**

- Guidelines on Infrastructure, Health, Housing, Urban Development developed by National Institute of Disaster Management.
- International Recovery Platform (IRP) prepared sectoral guidance notes based on consultation (face to face as well Solution Exchange) on nine thematic area capturing international best practices of disaster recovery programmes. These are: a) Shelter; b) Livelihood; c) Environment, d) Public infrastructure; e) Governance; f) Gender; g) Health; h) Climate Change; and i) Psycho-social aspects of recovery.
- Disaster Management in India – A publication
- Strengthening of Disaster Management in India – A publication
- Standard Operating Procedures on Floods, Earthquake, Landslides, Fire Safety etc in Assam, Himachal Pradesh, Sikkim, Tripura and West Bengal
- Study on level of compliance to the newly amended building regulations in three cities of Uttar Pradesh (Meerut, Ghaziabad, Gautambudhnagar).

➤ **Review/update building codes**

Amendment to building bye-laws drafted and submitted to state governments. Till date, 11 states (such as Assam, Arunachal Pradesh, Bihar, Gujarat, Haryana etc) have amended building rules/regulations/development regulations to ensure safety in natural hazard prone areas.

The status of progress has been given in the table below.

No. of States with amended Building Rules/ Building Regulations/ Development Regulations to ensure structural safety in natural hazard prone areas (including many of the suggestive provisions prescribed in the guideline issued by the Technical Committee of MHA).	11	Assam, Arunachal Pradesh, Bihar, Gujarat, Haryana, Maharashtra, Meghalaya, Tripura, Uttar Pradesh, Uttarakhand, West Bengal.
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States having partial provisions in the building regulations/Bye Laws to ensure structural safety against hazards and require further revisions to include some of the provisions suggested in MHA guideline.	3	Mizoram, Tamil Nadu, Karnataka
States that have initiated the process of amending the building regulations.	5	Andhra Pradesh, Himachal Pradesh, Kerala, Manipur, Sikkim
States that need to take actions to amend their building regulations.	7	Rajasthan, Jammu & Kashmir, Jharkhand, Punjab, Nagaland, Delhi

➤ **Workshop/consultation to strengthen enforcement of building code**

Advocacy workshops on "Amendment of Town Planning Rules/Building Bye laws/Development Regulations to ensure Structural Safety against natural hazards held in URR cities such as Guwahati, Hyderabad, Meerut etc. Technical support was provided to guide Municipal Corporations and State Governments on amendment of Building Byelaws, Zoning Regulations and Town & Country Planning Acts/Urban Development Acts.

S.no	Activities along with indicators	Progress
1	No. of State Level/city meetings held on Techno-Legal Regime	40

MAIN RESULT AREA IV: AWARENESS ON DISASTER RISK REDUCTION

➤ **Public Awareness**

Model Indra Awas Yojana (IAY) houses have been constructed by Department of Rural Development in Tripura to promote hazard resistant construction. For awareness generation on Urban Risk Reduction, regular programmes involving various stakeholders, local community, school children, teachers, hospital staff, NSS, NCC, SHG volunteers have been conducted in URR cities. Various activities were carried out in URR cities during IDRR 2012 to demonstrate of personal safety during disasters; rescue and first aid techniques; mock drills; sensitization and capacity building programmes for school girls, teachers, government officials, PRIs; public rallies, mock drills at public places; street theatre; Quiz on Disasters and film shows for awareness generation on disaster risk reduction.

S.no	Activities	Progress
1	No. of City Level Awareness Generation Programme organized	180

➤ **IEC Material developed**

IEC material has been developed in the DRR states that has been widely disseminated for awareness generation, during workshops, events etc at the State, District and City level.

Some of the IEC material developed for awareness generation is listed below:

- Teachers handbook on School Safety and Earthquake Preparedness
- Aapdha Prabhandan book (Disaster Preparedness Book)
- Role of Urban Self Governance in Disaster Management

- Guidelines for Mainstreaming Disaster Risk Reduction in NREGA
- Training Calendar
- Fire pamphlet
- Flood Manual
- On-site and off-site emergency plans for factories and industrial units
- Posters - Flood & Earthquake
- Training manual on earthquake safety for schools
- Do's & Don't's Poster – Earthquake, Landslides, Fire Safety, Road Accidents etc
- Earthquake preparedness guide
- Landslides preparedness guide
- Emergency First-aid preparedness guide
- Family disasters preparedness kits
- Non-Structural safety tips
- Annual Calendar
- Books on multi-hazards stage and street play
- Hoardings on earth-quake, fire and landslides (Flex printed)
- Newsletters
- GIS aided studies of landslide
- Handbills on Household Fire Safety
- Earthquake Preparedness Guide for Home dwellers
- Disaster Preparedness (Aapdhayen - karan aur bachauv)
- Bhukamp Aapda Evam Nivaran - Calendar
- Ten Rules for safety - Earthquake (Hoardings)
- Techno-legal Regime to ensure structural safety (Bhukamp Rodhi Bhawan) (Hoardings)
- Safety Tips for Earthquakes (Hoardings)
- Safety Tips for Fire (Hoardings)
- Safety Measures - Fire (Posters/Leaflets)
- Safety Measures- Earthquake (Posters/Leaflets)
- Quarterly newsletters
- Bachon Ka Akhbaar
- Yearly Calander
- Dos & Donts Posters
- Hand-book On Improvised Flood Rescue
- First- Aid Handbook
- Emergency Contacts Diary
- Industrial Safety Handbook

MAIN RESULT AREA V: KNOWLEDGE MANAGEMENT

➤ **Development of website at the state/district level**

The State Disaster Management Authorities of 16 states have developed websites and are regularly updated with all the DM related information.

➤ **Linkage established with knowledge institutions/Data base of training institutions, resource institutions, resource persons**

Linkages have been established with technical institutions such as IITs, engineering colleges for knowledge sharing and technical assistance. Administrative Training Institutes and State Level Institutions are taking up capacity building activities to integrate programme supported training with the regular DM training undertaken at ATI level with NIDM support. Database of training institutions and resource persons have been maintained at the state/district and city level and are regularly updated in the SDMA website. Formats for compiling information regarding master trainers are being developed in Uttar Pradesh. Uttarakhand has established collaboration with Indian Institute of Engineers (IIE) to dovetail DM concerns in housing sector.

S.no	Activities along with indicators	Progress
1	Development of Website at the state/district level	16
2	No. of technical institutions/Knowledge Institutions involved at state level for knowledge development and technical assistance	93

DISASTER RISK REDUCTION (DRR)

Coverage: During 2009-2010, the project was implemented in 26 states. Based on the review of the progress achieved at the state level, the number of project states was reduced to 24 states in 2011 and 19 states in 2012. Human Resource Support had been provided at the state and district level for technical assistance since 2010.

2009-2010	2011	2012
26 states	24 states	19 states

A report capturing the progress achieved under the Main Result Areas is presented below.

MAIN RESULT AREA I: INSTITUTIONAL STRENGTHENING

➤ Human Resource Support

Under DRR Project support was provided for human resource to SDMAs and DDMA's to provide technical assistance on DM.

Human Resource	2009-2010	2011	2012
No. of SDMA's/Dept. of DM supported with trained HR	15	21	19
No. of DDMA's supported with trained HR	70	64	40

➤ Preparation of Disaster Management Plan

Under the DRR Project technical and coordination support was provided to the states and districts in preparation of Disaster Management Plans. The status of preparation of Disaster Management Plans at state, district, block and village level is given below. Many of these plans are at draft stage and support is being provided to review these draft plans and bring in necessary modifications as required.

S. No.	State/District	Covered under DRR Programme	No. of Draft Plans available
1	State	26	21
2	District	78	75
3	Block		114
4	Village		3620

The preparation of the state plans is one of the key functions of the State Government under the Gol-UNDP Disaster Risk Reduction Programme. UNDP supported the National Disaster Management Authority to review the state plans. A consultant was also appointed to review twelve State DM plans as per the NDMA guidelines. NDMA also organized a National Consultation to review the state plans of select states.

MRA II: CAPACITY BUILDING

Training of Government functionaries have been conducted in DRR states and districts. The purpose of the training programmes is to ensure that each department is oriented on Disaster Management and trained on the preparation of its own departmental plans, development of Standard Operating Procedures and also to mainstream DRR in the ongoing programmes. The line departments in the programme have also prepared the standard operating procedures for the district that can be followed in case of any emergency. The technical support provided under the DRR project has also facilitated preparation of perspective capacity building plan under the 13th Finance Commission in many states.

Communities and institutions have been trained in preparedness, response and recovery at the centre/selected states by developing methodologies and guidelines for post disaster damage, loss and need assessment. Capacity Building Programmes have been conducted for wide range of stake-holders like PRIs, school students, teachers, masons, hospital administrators. In the state of Assam and Maharashtra various trainings on search & rescue and first-aid have been conducted for women master trainers as well.

No.	Activities along with indicators	Progress
1	No. of Training of Trainers (ToT) programme conducted on Post Disaster Needs Assessment (PDNA)	12
2	Total no of participants trained in PDNA	422
3	State level Training Need Assessment on DM	13
4	State level ToT on DM	27
5	Training programmes conducted for PRIs/ PRIs trained	90/5902
6	Training programmes conducted for Self Help Groups on Community Based Disaster Risk Management (CBDRM)/SHG members trained	98/4598
7	Trainings conducted for NGOs/ NGOs trained	51 /1560
8	No. of training programmes conducted for volunteers on DM/ Volunteers trained	59/3381
9	No. of Teachers training programmes organized	134
10	No. of Teachers trained on School Safety	4404
11	No. of School DM plans prepared	1390
12	No. of Engineers and Architects trained	675
13	No of Masons Trained	1972

➤ Sectoral Modules/Guidelines Developed

The National Institute of Disaster Management prepared sectoral guidelines to facilitate training at the national and state level which would be referred to various state governments for conducting different training and capacity building programmes. These are:

- Training Module on Mainstreaming DRR into Development Planning
- Training Module on Mainstreaming DRR into Housing Sector
- Training Module on Mainstreaming DRR into Environment Sector
- Training Module on Mainstreaming DRR into Health Sector
- Training Module on Post-Disaster Recovery
- Training Module for Mainstreaming DRR in Urban Sector

➤ **Hazard Risk and Vulnerability Assessment:**

A National Consultation Workshop on HRVA was organized in 2010 to understand various existing methodologies and practices. A draft framework for conducting HRVA was developed and circulated to states. Presently Hazard Risk and Vulnerability Assessment have been initiated in 23 Districts. States such as Himachal Pradesh, Sikkim, Tripura, Uttarakhand, West Bengal are leveraging funds from State/13th Finance Commission Grant/State budget to undertake state vulnerability analysis. HRVA completed in the districts of Lucknow, Nilgiris, Jalandhar (Punjab), Jalpaiguri (West Bengal), 4 districts of Sikkim and ongoing in states of Andhra Pradesh and Tripura.

S.no	Activities along with indicators	Progress
1	No. of District level HRVA initiated	23
2	No. of District level HRVA completed	10

MRA III: MAINSTREAMING DISASTER RISK REDUCTION FOR DEVELOPMENT

One of the key deliverables of the GoI-UNDP Disaster Risk Reduction programme is to integrate disaster risk management with national development programmes. The project has taken initiatives to promote mainstreaming efforts in various nodal administrative departments and line department officials of sectors like education, health, infrastructure etc. have been sensitized on the importance of integrating disaster management in the development agenda. With a view to address risk reduction concerns and to facilitate mainstreaming initiatives in various developmental sectors, sectoral guidelines have been prepared by NIDM. The DRR states and URR cities have taken initiatives to mainstream DRR into the development plans of the state. In some of the states, guidelines have been developed for Mainstreaming DRR into development. Various advocacy workshops have been conducted for government departments to sensitize and advocate for mainstreaming DRR in their development agenda.

S.no	Activities along with indicators	Progress
1	No. of State level Advocacy workshop organized to mainstream DRR into planning and programmes	34
2	No. of District level Advocacy Workshop held on mainstreaming DRR into planning and programmes	107
3	State level meetings held with Departments for Mainstreaming DRR	32

MRA IV: AWARENESS ON DISASTER RISK REDUCTION

The states were supported to generate awareness on various aspects of Disaster Risk Reduction through use of multiple modes of communication and adopting a multi-hazard approach. Addressing the specific requirements of vulnerable regions and the risk mitigation and preparedness needs of identified communities, various IEC material like posters, leaflets, banners, training modules, audio visual material, films, radio jingles have been produced at the national, state, district and city levels. The aim is to develop a large body of advocacy and awareness materials, especially in vernacular languages, to deliver the message to the communities in their local languages addressing their sensibilities as well as

targeting vulnerable groups such as women, children, elderly, differently abled, marginalized and excluded groups. State Level Awareness Programmes have been organized in 49 states.

In order to provide easy access to a variety of IEC materials have been developed and used at various levels in the country. (Refer Pg.8 for list of IEC material).

State governments and district administrations observed the International Day for Disaster Risk Reduction 2012 by organizing series of awareness generation programmes like quiz competitions, slogan writing, processions, painting competition, street theatre involving school children, while the youth got trained in skills like search & rescue, first-aid to act as first responders during emergency. Disaster management skills were demonstrated by conduction of mock drills through involvement of government departments like Police Force, Civil defense and Fire Services. The IDRR 2012 was commemorated in the DRR states/districts and cities highlighting the need for women and girls to be at the forefront of reducing risks.

MRA V: KNOWLEDGE MANAGEMENT

For effective knowledge networking, UNDP is facilitating the operation of Disaster Management Community of Practice (an electronic network of disaster management practitioners) under the Solution Exchange initiative of the UN Agencies in India. DM community has facilitated discussions that provided policy inputs for the development of DM policy of the states such as Madhya Pradesh and Kerala. Under the DRR project, an approach paper on Knowledge Management conceptualizing 'India Disaster Knowledge Centre' has also been prepared and submitted to the government. UNDP also supported government in '**DM Act 2005 review**' and '**Roadmap for Disaster Risk Reduction beyond HFA**' by organizing consultations and facilitating knowledge exchange (Face to face as well as on Solutions Exchange) with NGOs and representatives of Civil Society Organizations.

The State Disaster Management Authorities of 16 DRR states have developed their DM websites and are regularly updated with all the DM related information.
