Community Based Disaster Management (CBDM) by UNCRD Hyogo Office

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(United Nations Centre for Regional Development)

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BRI Workshop
Vulnerable Houses (Stone/Brick)

2005 Pakistan
Vulnerable Houses (Adobe)

2001 India
Vulnerable Houses (RC)

2005 Pakistan
Objectives and Activities of UNCRD

Major Goal
Sustainable Regional Development

Three Sub-goals
- Economic Development
- Environmental Conservation
- Human Settlement Development

Activities
- Training: Hold annually training course for developing countries
- Provide advisory services in regional development
- Promote the exchange of data on the research of practical experience
Disaster Management Planning
(1985-1999: before Hyogo Office, in Nagoya)

Disaster Management Planning Sub-programs

- The Mega-City Risk Assessment Project in China
- Comparison on effective early seismic warning systems in Mega-cities (Mexico City & Kawasaki City)
- Cyclone Disaster Management in Bangladesh
- Support the activities of IDNDR
- “Quake Busters” educational software for children
- The Development of GIS for disaster management
- Learn from the best practices and recent examples

Research, Training and Advisory Services
In 1999, Establishment of the Disaster Management Planning Hyogo Office

- Kobe Earthquake, 1995
- IDNDR (United Nations International Decade for Natural Disaster Reduction 1990-1999)
Goals of Disaster Management Planning

Act Locally, Disseminate Globally

Government

Develop programs on the needs of the stakeholders

People

Non-government (NGOs)

Academics (Research Institutes, Universities)
UNCRD Hyogo Office aims to enhance the capacity of local people and governments with various partners, to make communities safer.

Motivation and actions at individual and community level are essential.
UNCRD Projects (1999 - 2006) and Concepts

Community Based Development

Recovery Projects of disaster affected areas

Disaster Policy Integration

School Earthquake Safety Initiative: SESI (Human Security Fund)

Earthquake Safety

Housing Earthquake Safety Initiative: HESI (Anti-seismic Building Code Dissemination)

Global Earthquake Safety Initiative: GESI (Urban risk assessment)

Urbanisation and CBDM (HTF 7 - )

Sustainability in CBDM (HTF 4 - 6 )

Hyogo Trust Fund

World Conference on Disaster Reduction WCDR 2005

Community Based Disaster Management (HTF 1 - 3 )

Field Survey of disaster affected areas

Self-help / Cooperation

Sustainable Regional Development
Why Community Based Disaster Management (CBDM) ?

- Local people are potential victims and assume responsibility in managing the risk
  (Over 90% of victims at the 1995 Great Hanshin-Awaji Earthquake lost lives by the collapse of their own houses.)

- Local people respond first and remain last to rebuild safer communities
  (Around 80% of people who were saved under the debris were rescued by the neighbors at the 1995 Earthquake.)
Community Based Approach for Disaster Management Plans

Model Projects
Implementation

Demonstration

Training
Technology transfer

Capacity Building

Model construction
Shake-table test
Hazard Maps
Workshops
Handbook

Education
Awareness raising

Motivation

Disaster resilient communities, Safer schools, Houses for Sustainable Development and Hyogo Framework for Action
UNCRD Activities for CBDM

- Dissemination of best practices
- Initiation of model projects
- Development of practical guidelines / tools for risk assessment and CBDM
- Training and advisory services
- Building partnership internationally and locally
PNY Patanka New-Life Project
Rehabilitation after Gujarat Earthquake of January 2001, focusing on non-engineered construction

Training  Education  Awareness  Confidence

Partnership with: EDM, NCPDP, NGOs Kobe, NSET-Nepal, and SEEDS

2001 India
Afghanistan Training and Livelihood Initiative

Objectives

- To develop guidelines for earthquake safer construction practice
- To conduct training of masons and engineers
- To recover livelihood

With national governments, Kabul University, SFL, CODE, and NSET

2003 Afghanistan
Shake Table Demonstration

Build People’s confidence/ Simple and effective means,
Enhance understanding of performance of simple structures,
Incorporate people into process of transferring technology

Stone with mud mortar structure

Comparison of resistance to Earthquake between Normal vs. Retrofitted

2001 India
Improvised Shake Table Demonstration

For reconstruction of Exhibition at World Conference in Bam, Iran, Nov. 2004 and World Conference on Disaster Reduction (WCDR) in Kobe, Jan. 2005
Sustainability in Community-Based Disaster Management (2002-2005)

Year 1 (2002):
Framework for sustainable CBDM through 6 case studies in Bangladesh, Cambodia, India, Indonesia, Nepal, and the Philippines

Year 2 (2003):
Development of Guidelines for Sustainable CBDM and field testing in Bangladesh, Viet Nam, and the Philippines

Year 3 (2004):
Application of the Guidelines in Viet Nam and Mongolia, Partnership building
Fields of Disaster Management

- Public Education / Awareness
- Education for Technicians
- Community Development
- SESI
- HTF/CBDM
- Recovery
- Technology Development
- HESI
- Institutions for Urban Control
- Institutions for Building Control
New Programs of UNCRD 2005


- “Reducing Vulnerability of School Children to Earthquake” project (2005-2006) in Uzbekistan, India, Indonesia and Fiji.
New Programs of UNCRD 2006

(Planned)

- Housing Earthquake Safety Initiative (HESI) as a three-year program (2006-2008)


(based on the application)
Urbanisation and Community-Based Disaster Management (2005-2007)

Gender-sensitive CBDM: HTF VIII

Community
Socially vulnerable groups; Women, children etc

Disaster Management Policy
Gender-sensitive

UNCRD local Facilitator
Bangladesh, Thailand, Nepal, and Sri Lanka

1. Targeted at gender-sensitive CBDM for socially vulnerable community members.

2. UNCRD local facilitator promotes policy dialogs, training, and awareness raising.

Funded by Hyogo Prefecture
Reducing Vulnerability of School Children to Earthquake (2005-2006)


South-East Asia: Banda Aceh, Indonesia
South Asia: Simla, Himanchal st., India
Asia Pacific and Oceania: Suva, Fiji
Central Asia: Tashkent, Uzbekistan

Indonesia, India, Fiji, and Uzbekistan

Funded by OCHA (Human Security Fund)
School Earthquake Safety Initiative (SESI)

Retrofit

Bal Vikas Secondary School, Nepal

• Strengthen school buildings (retrofitting)
• Technology transfer and training of masons/engineers
• Disaster education and mitigation culture

Related Policy Areas

Social
- Raising public awareness, etc.
- Building control, anti-seismic codes, etc.

Economic
- Loan system with safety standards,
- Assurance system, etc.

Environmental
- Technology management, greenery, etc.
- Urban planning
- Energy system

First phase of HESI program: Anti-seismic Building Code Dissemination

Funded by Ministry of Land, Infrastructure and Transport

Indonesia, Nepal, Peru, Japan, and other seismic countries
Field Survey (North Pakistan Earthquake)

Muzaffarabad, Pakistan, 2006.03

Shake-table Test, Pakistan, 2006.03
## Recent Symposia and Publications

<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>2003</td>
<td>Int’l Workshop on Earthquake Safer World, Kobe</td>
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<tr>
<td>2003</td>
<td>Int’l Workshop on Reconstruction, India</td>
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<tr>
<td>2003</td>
<td>Towards Sustainable Community Recovery, PNY</td>
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<td>2003</td>
<td>Sustainability in Grass-Roots Initiatives: CBDM</td>
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<td>2003</td>
<td>Guidelines for Earthquake Resistant Design</td>
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<td>2003</td>
<td>From Disaster to Community Development, Kobe</td>
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<td>2004</td>
<td>Int’l Symposium on Community Legacy, Kobe</td>
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<td>2004</td>
<td>Int’l Conf. on Partnership in CBDM in Asia, India</td>
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<tr>
<td>2004</td>
<td>UNCRD Tapestry / UNCRD Digest</td>
</tr>
<tr>
<td>2005</td>
<td>World Conf. on Disaster Reduction (WCDR), Kobe</td>
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<tr>
<td>2005</td>
<td>UNCRD at UN WCDR 2005, Proceedings</td>
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UNCRD

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