

Mainstreaming Disaster Risk Reduction into Housing Sector Planning & Development Processes in Sri Lanka



Training course of the National Housing Development Authority (NHDA)
and Disaster Management Centre (DMC)

Developed under the Priority Implementation Partnership (PIP-SL) on Mainstreaming disaster risk reduction into Housing Sector in Sri Lanka, implemented under Regional Consultative Committee Program on Mainstreaming Disaster Risk Reduction into development Policy, Planning and Implementation in Asia with technical support from Asian Disaster Preparedness Center and with financial support from AusAID.



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Background of the National Training Course on Mainstreaming DRR into Housing Sector Planning and Development Processes in Sri Lanka

The Disaster Management Centre (DMC) under the Ministry of Disaster Management and Human Rights of Sri Lanka, as the member of the Regional Consultative Committee on Disaster Management (RCC) has been implementing since 2008 in partnership with National Housing Development Authority and national agencies involved in Housing Sector, the Priority Implementation Partnership of Mainstreaming disaster risk reduction into Housing Sector in Sri Lanka (PIP-SL). (For further information on the PIP-SL please visit www.rccdm.net)

The PIP-SL implemented through a Technical Working Group (TWG) comprising of multi-agencies (See box far right involved in various stages of housing programs, has identified the need of a long term national training course on mainstreaming disaster risk reduction into Housing sector.

Accordingly, over the course of implementation of the PIP, the TWG members under the guidance of the focal points nominated from NHDA and DMC have developed

Content of the Training course on Mainstreaming DRR into housing sector planning and development processes

The course is structured into four (4) modules along with an Inauguration / Introductory Session and a Concluding Session as shown in the program below:

Session	Course Inauguration & introduction	Session	Course Inauguration & introduction
Module 1	Disasters and Housing Sector	Module 3	Mainstreaming DRR in the design and construction process of Housing Sector Programmes
Session 1.1	Overview of the Housing Sector; Impact of disasters on the settlements / housing sector in Sri Lanka; Concept of disaster risk reduction	Session 3.1	Use of guidelines – (Floods)
Session 1.2	Measures for reducing disaster risk in the Housing Sector and mainstreaming DRR	Session 3.2	Use of guidelines – (Landslides)
Session 1.3	Legal and Institutional Arrangements for Disaster Management in Sri Lanka	Session 3.3	Use of guidelines – (Cyclones)
	Video Im on DRR	Session 3.4	Use of guidelines – (Tsunami)
Module 2	Mainstreaming DRR into planning processes of housing sector programs	Session 3.5	Use of guidelines – (Earthquakes)
Session 2.1	Importance of national physical plan and regional development plan for planning housings sector programs	Session 3.6	Use of Guidelines – (Effects of lightning)
Session 2.2	Importance of Land Use Planning in the Development Planning at local level for planning housing sector programs	Session 3.7	Use of Guidelines – (Effects of Drought)
Session 2.3	Role of local authorities in the planning process of the housing sector programs (Including Group activity)	Module 4	Partnerships and Financing options for Mainstreaming DRR in Housing Sector
		Session 4.1	Partnerships for mainstreaming DRR among external stakeholders involved in the Housing Sector
		Session 4.2	Financing options for mainstreaming DRR in Housing Sector
		Session	Course Conclusion

this course. With a target audience of government officials from various national agencies involved in housing program planning, design and implementation and NGOs and development partners, the specific objectives of the course include:

1. Increased awareness among participants on the need to mainstream DRR into housing programs
2. Enhanced capacities of participants on how to mainstream DRR concerns into the programmes of NHDA and other ministries / agencies they are working with
3. Increased awareness among participants on the use of tools / guidelines for planning design and construction of housing programs in hazard prone areas
4. Increased understanding and operational skills developed among participants on establishing / strengthening inter-sectoral partnerships for mainstreaming DRR in the housing programmes including private sector
5. Capacity created among participants to undertake advocacy and promote awareness on safer housing

PIP- Technical Working Group

Chairperson:

- Disaster Management Centre (DMC)

Members

- Ministry of Housing & Common Amenities
- Ministry of Nation Building & Estate Infrastructure Development
- Ministry of Public Administration & Home Affairs
- Ministry of Local Government & Provincial Councils
- Ministry of Fisheries & Aquatic Resources
- Ministry of Irrigation & Water Management
- Central Environmental Authority
- Coast Conservation Department
- Urban Development Authority
- National Physical Planning Department
- National Housing Development Authority
- Sri Lanka Land Reclamation & Development Corporation
- National Building Research Organisation
- Rana Viru Sewa Authority

Brief description about the modules:

Module 1: Disasters and Housing Sector

This module consisting of four sessions introduces the legal framework for Disaster Management in the country, the housing sector, ministries and key agencies, impact of past disasters, DRR concepts and terminologies, planning measures and tools, mitigation measures, mainstreaming DRR:

Session 1.1 Legal and Institutional Arrangements for Disaster Management in Sri Lanka

This session includes legal framework for DM; national and sub-national institutional Framework; Hazards that come under the purview of the Act; DM Policy and Plan; Ministries and agencies responsible for different aspects of DRM; Responsibilities of sub national level administrations; Technical Advisory Committees and DM Committees at different levels

Session 1.2 Overview of the Housing Sector; Impact of disasters on the settlements / housing sector in Sri Lanka; Concept of disaster risk reduction (DRR)

This session describes the housing sector in Sri Lanka, Ministries and Key Agencies involved; Impact of past disasters on the housing sector, Losses to human life and housing property; DRR concepts and terminologies, Different phases of DRM

Session 1.3 Measures for reducing disaster risk in the Housing Sector and mainstreaming DRR

This session introduces planning measures, hazard, vulnerability and risk assessment in regular planning tools; mitigation measures, Specific mitigation projects and integrating in new projects, retrofitting / strengthening existing structures / buildings; measures for integration in post disaster reconstruction; DRR concept, rationale and approaches for mainstreaming DRR

Session 1.4 Check lists for mainstreaming DRR

This session introduces check lists for MDRR and their use in different situations

Module 2: Mainstreaming DRR into planning processes of housing sector programs

This module comprises 3 sessions and presents the basics of national physical planning, regional development planning and DRR integration therein, mainstreaming DRR by the LAs, need for partnerships, building application and approval procedures of LAs, and legal requirements.

Session 2.1 Importance of national physical plan and regional development plan for planning housing sector programs

This session presents the basics on national physical planning and regional development planning and DRR integration; their use in the preparation of Development Plans at local level

Session 2.2 Importance of Land Use Planning in the Development Planning at local level for planning housing sector programs

The session introduces agencies involved in land use planning and DRR integration therein; mainstreaming DRR in the development planning process by the LAs; need to partner with other ministries / agencies



Module 3: Use of Guidelines for Mainstreaming DRR in the design and construction process of Housing Sector Programmes

This module consisting of seven sessions presents guidelines for construction in areas prone to different hazards, namely, floods, cyclones, tsunamis, earthquakes, lightning and drought.

Session 3.1 Use of guidelines (Floods)

This session presents types and definition of floods; reasons for floods and land use impacts; Flood zoning; strategies for settlement planning; suitable sites for housing in flood prone areas; structural considerations; roof types and walls and openings for buildings

Session 3.2 Use of guidelines (Landslides)

The session emphasises on the adverse impacts and causal factors of landslides; precautions during planning, design and construction stages; retaining walls and construction details; considerations for construction of foundation; drainage systems; erosion control; methods to minimize effects of landslides

Session 3.3 Use of guidelines (Cyclones)

Introduction to cyclones, tornados and other high wind situations, causes and characteristics; impacts; types of damage; wind loading zones, categories of structures and exposure condition; considerations in planning buildings; design of simple buildings

Session 3.4 Use of guidelines (Tsunami)

The session includes impacts of tsunami; factors affecting the severity of effects; loads on a building, structure and exposure condition; considerations in planning buildings in coastal areas; design of simple buildings in coastal areas

Session 3.5 Use of guidelines (Earthquakes)

This session presents impacts of earthquakes; types of damage; factors affecting the severity; loads on different types of buildings; planning buildings in earthquake zones; design of simple buildings in earthquake zones

Session 3.6 Use of Guidelines (Effects of lightning)

Participants are made aware of how lightning hazard affect persons and property; how it varies with the time of the year; locating buildings in areas prone to lightning; protection methods; precautionary measures

Session 3.7 Uses of Guidelines (Effects of Drought)

The session includes problems of expansive soils in drought prone areas; strategies and guidelines for construction

Module 4: Partnerships and Financing options for Mainstreaming DRR in Housing Sector

This module consisting of two sessions presents the importance of partnerships among various agencies; financing options for mainstreaming DRR in housing sector including convincing of funding agencies and prioritisation of funding for DRR.

Session 4.1 Partnerships for mainstreaming DRR among external stakeholders involved in the Housing Sector

Session includes partnerships between housing development agencies and DMC; Linkage between National and LA Development Process; linkage between DMC and LAs; partnerships with Multilateral and bilateral donors; NGOs; International funding agencies; and private sector agencies

Session 4.2 Financing options for mainstreaming DRR in Housing Sector

This session introduces about the increased funding requirements for integration over and above the normal project budget; convincing government financial authorities, Multilateral and bilateral donors, NGOs, and International funding agencies; prioritisation of budget support for DRR initiatives; possibility of unanticipated reallocation of project funding to post disaster relief or rehabilitation or reconstruction.

Delivery of the training course on MDRR into housing sector planning and development processes

The training course of three day duration is developed as the national training course of NHDA and DMC.

It is proposed to be delivered in the future by NHDA and DMC in partnership with interested national agencies involved in Housing sector and with support from national and international development partners. The course is planned to be delivered at both national and sub-national level based on the need of the stakeholders.

For more Information:

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