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## Annex 1-1: Progress Activiteies in th "Road Map"

							Disa	aster	Тур	е	-					
Vol. 2	Component	poc	indslide	ought	unami	arthquake	/clones	nado/Strong Wind	astal Erosion	ghtening	rest Fires	oidemics	hers	nclassifiable	HFA	Status
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Policy, Ins	Intutional Mandates and Institutional Development	v	v	v	v	v	v	v	v	v	v	V	v		1-(i)	Δ
P-02	Institutional Mandates Reviewed		X	^		~	~			^	X	<u> </u>	<u>^</u>		1-(1)	~
P-02.1	For Provincial Councils & Local Government Agencies to Perform Disaster Related Activities	х	х	х	х	х	х	х	х	х	х	х	x		1-(i)	В
P-02.2	For Line Agencies to Perform Disaster Related Activities	х	х	х	х	х	х	х	х	х	Х	х	х		1-(i)	В
P-03	Developing Institutional Mandates & Capacities	X	X	X	X	х	х	х	х	х	Х	x	X		1-(ii)	B
P-04 P-05	Formulation of CBDRM Policy	X	X	X	X							-	x		1-(ii)	B
P-06	Establishment of the National Centre building	x	X	x	x								x		1-(ii)	A
P-07	Facilitating the Reconciliation Process													х		С
P-08	Good Governance and the Law-Making Process											_	+	X		
P-09 P-10	Strengthening Human Rights: Constitutional Reform									-	-	-	<u> </u>	X		B R
P-11	Strengthening Women's Rights												1	x		-
P-12	Voting Rights of Migrant Works													х		N/A
P-13	Issues Pertaining to a Durable Peace in Sri Lanka													х		N/A
P-14	Encouraging Good Governance within the Ministry												<u> </u>	x		С
Hazard, V	Jinerability and Risk Assessment		v	<u> </u>	1				1	1	1	1			2-(i)	B
HVR-02	Establishment of DRM Information System at DMC	х	x	х	х								x		2-(i) 3-(i)	C
HVR-03	Flood Risk Assessment	х													2-(i)	В
HVR-04	Coastal Vulnerability Assessment & Risk Analysis								х						2-(i)	А
HVR-05	Development of Drought-prone Area Maps of LGA			x						<u> </u>		<u> </u>	$\vdash$	Щ	2-(i)	В
	Dam Sarety & Kisk Assessment	v	Y	- -	v	$\vdash$				-		-	X	⊢┤	2-(I)	<u>C</u>
HVR-08	Vulnerability Atlas	×	X	×	X			-		-			X	$\vdash$	∠-(i) 2-(i)	B
HVR-09	Development of Wind Zoning & Storm Surge Maps	Â	Â	Ê				х					Ê	$\square$	2-(i)	Ā
HVR-10	Seismic Zonation Maps					х									2-(i)	С
HVR-11	Integrated Epidemic Risk Assessment			$\vdash$								х		Щ	2-(i)	D
HVR-12	Major Transportation Accidents										-	_	X		2-(i)	D
HVR-13 HVR-14	Major Industrial Accidents Terrorism & Human-made Disasters									-	-	-	X	$\vdash$	2-(i) 2-(i)	D
HVR-14	Reintegration of Ex-combatants											-	Ê	x	-	D
Tsunami a	nd Multi-hazard Early Warning System															
E-01	Establishment of the National Early Warning Centre of Sri Lanka	Х	Х		Х		х	х			Х		х		2-(ii)	А
E-02	Improvement of Meteorological Observation and Prediction Capabilities	х	Х	х			х	х					х		2-(iii)	B
E-03	Improvement of Hydrometric Network for Enhancing Flood Monitoring and Forecasting Capabilities	х	v	-							-	-	+	-	2-(iii)	B
E-04 E-05	Development of Long and Medium Term Drought Forecasting and Monitoring System for Agriculture and Associated Sectors			Y						-	-	-	<u> </u>	-	2-(iii) 2-(iii)	D
E-06	Development of an Effective Cyclone Tracking, Storm Surge Warning System		-	Ê			х	х							2-(ii)	В
E-07	Development of a Unified Seismic Monitoring and Data					х									2-(iii)	Α
	Early Warning for Hazards Associated with Major Dams														2-(ii)	R
E-08	Lany warning for hazards Associated with Major Dams											_	X		2 (11)	D
E-08 E-09	Development of Oceanographic Monitoring System								x				×		2-(iii)	D
E-08 E-09 E-10 E-11	Development of Oceanographic Monitoring System Establishment of an EWS for Nuclear Accidents and Monitoring of Environmental Radiation				×				х			E	x		2-(ii) 2-(ii) 2-(ii)	
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## Annex 1-1: Progress Activiteies in th "Road Map"

							Disa	aster	г Тур	e						
Vol. 2	Component	Flood	Landslide	Drought	Tsunami	Earthquake	Cyclones	Tornado/Strong Wind	Coastal Erosion	Lightening	Forest Fires	Epidemics	Others	Unclassifiable	HFA	Status
M-12	Research and Development in Disaster Risk Reduction	х	х	х	х	Х	х	х	х	Х	Х	х	х		4-(ii)	В
M-13	Reducing Health Risk due to Polluted Groundwater												х		4-(i)	В
M-14	Construction of By-pass Road Down-stream of Kantale Dam												х		4-(i)	С
M-15	Drinking Water for Drought Affected Divisions of Hambantota and other Districts through Desalinization												х		4-(i)	В
M-16	Provision of Incinerators as a Solution to Solid Waste Disposal												х		4-(i)	В
Communit	y-based Disaster Risk Management															
CBDM-01	Promotion of CBDRM Volunteerism	х	х	х	х	Х	Х	Х	Х	Х	х	х	х		1-(iii)	В
CBDM-02	Establishing CBDM Resource Centres	х	х	х	х	Х	х	х	х	х	х	х	х		3-(i)	D
CBDM-03	Preparedness and Mitigation through Small Grants Programmes	х	х	х	х	х	х	х	х	х	х	х	х		5	В
CBDM-04	Development and Implementation of Micro-Finance Schemes	х	х	х	х	х	х	х	х	х	х	х	х		5	D
CBDM-05	National CBDRM Programme	х	х	х	х	х	х	х	х	х	х	х	х		1-(iii)	Α
CBDM-06	Applied Research Grant Scheme for CBDRM	х	х	х	х	х	х	х	х	х	х	х	х		3-(iii)	D
CBDM-07	Land mines and Unexploded Ordnances (UXO)													х	-	-
CBDM-08	Alternative and Informal Dispute Resolution Mechanisms and Improving Services from State Actors													х	-	В
CBDM-09	Facilitation of the creation of local citizens committees	х	х	х	х	х	х	х	х	х	х	х	х		1-(iii)	В
CBDM-10	Strengthening Participatory Democracy-local Government													х	-	В
CBDM-11	Creating a Special Disaster Response Ombudsmen	х	х	х	х	Х	х	х	х	Х	Х	х	х		1-(i)	D
CBDM-12	Issues of Subsidiarity in Situations of Emergency				х										3-(iii)	В
CBDM-13	Strengthening Human Rights in Tsunami Recovery				х										4-(ii)	В
Public Awa	areness, Education and Training															
PA-01	Awareness through Disaster Safety Day	х	х	х	х	Х	Х	Х	Х	Х	х	х	х		3-(iv)	Α
PA-02	National Public Awareness Programme	х	х	х	х	х	х	х	х	Х	х	х	х		3-(iv)	В
PA-03	Awareness through Schools and School Children														$\geq$	
PA-03.1	Integration of DRM into School Curriculum	х	х	х	х	х	х	х	х	Х	х	х	х		3-(ii)	Α
PA-03.2	School Children Awareness Programme	х	х	х	х	х	х	х	х	Х	х	х	х		3-(ii)	В
PA-04	Awareness through University Curriculum and Continuing Education														$\sim$	
PA-04.1	Integration of DM in Graduate and Post-graduate Curriculum in University Education	х	х	х	х	Х	Х	Х	Х	Х	х	х	х		3-(ii)	Α
PA-04.2	Awareness by Integrating DM Training in Continuing Education	х	х	х	х	Х	х	х	х	Х	Х	х	х		3-(ii)	D
PA-05	Training for Government Employees	х	х	х	х	х	х	х	х	Х	Х	х	х		3-(ii)	A
PA-06	Training for Emergency Preparedness and Response	х	х	х	Х	х	х	х	х	х	х	х	х		3-(ii)	С
PA-07	Enhancing Training Capacities	х	х	х	Х	х	х	х	х	х	х	х	х		3-(ii)	В
PA-08	Special Awareness Programmes	х	х	х	Х	х	х	х	х	х	х	х	х		3-(ii)	С
PA-09	Nationwide Awareness Campaign on Public Safety	х	х	х	х	Х	х	х	Х	X	х	х	х		3-(iv)	В

 

 completed

 Not yet

 To some extent completed

 Ongoing

 Not applicable anymore

 Α D B C N/A

## Annex1-2: Road Map Matrix

Priority Actions	Key Activities	Flood	Landslide	Drought	Tsunami	Others
HFA-1	<ul> <li>(i) National institutional and legislative frameworks</li> </ul>	P-1, 2.1, 2.2, 5, 14 CBDM-11	P-1, 2.1, 2.2, 5, 14 CBDM-11	P-1, 2.1, 2.2, 5, 14 <mark>CBDM-11</mark>	P-1, 2.1, 2.2, 5, 14 CBDM-11	P-1, 2.1, 2.2, 5, 14 <mark>CBDM-11</mark>
	(ii) Resources	P-3, 6	P-3, 6	P-3, 6	P-3, 6	P-3, 6
	(iii) Community participation	<mark>P-4,</mark> CBDM-1, 5, 8, 9, 10	<mark>P-4,</mark> CBDM-1, 5, 8, 9, 10	<mark>P-4,</mark> CBDM-1, 5, 8, 9, 10	<mark>P-4,</mark> CBDM-1, 5, 8, 9, 10	<mark>P-4,</mark> CBDM-1, 5, 8, 9, 10
HFA-2	(i) National and local risk assessments	HVR-3, 7, 8	HVR-1, 7, 8	HVR-5, 7, 8	HVR-7, 8	HVR-4, 6, 7, 8, 9, 10 HVR-11, 12, 13, <mark>14</mark>
	(ii) Early warning	E-1	E-1, 4		E-1, 11	E-1, 6, 8, <mark>E-10</mark>
	(iii) Capacity	E-2, 3	E-2	E-2, <mark>E-5</mark>		E-2, 7, <mark>E-9</mark>
	(iv) Regional and emerging risks					
HFA-3	(i) Information management and exchange	HVR-2 CBDM-2	HVR-2 CBDM-2	HVR-2 CBDM-2	HVR-2 CBDM-2	HVR-2 CBDM-2
	(ii) Education and training	PA-3.1, 3.2, 4.1, 4.2 PA-5, 6, 7, 8	PA-3.1, 3.2, 4.1, 4.2 PA-5, 6, 7, 8	PA-3.1, 3.2, 4.1, 4.2 PA-5, 6, 7, 8	PA-3.1, 3.2, 4.1, 4.2 PA-5, 6, 7, 8	PA-3.1, 3.2, 4.1, 4.2 PA-5, 6, 7, 8
	(iii) Research	CBDM-6	CBDM-6	CBDM-6	CBDM-6, 12	CBDM-6
	(iv) Public awareness	PA-1, 2, 9	PA-1, 2, 9	PA-1, 2, 9	PA-1, 2, 9	PA-1, 2, 9
HFA-4	(i) Environmental and natural resource management	M-2	M-1	M-9		M-10, 13, 14, 15, 16
	(ii) Social and economic development practices	M-11, 12	M-11, 12	M-11, 12	M-11, 12 CBDM-13	M-11, 12
	(iii) Land-use planning and other technical measures	M-3, 4.1, 4.2, 5, 8.5	M-3, 4.1, 4.2, 5, 8.5	M-3, 4.1, 4.2, 5	M-3, 4.1, 4.2, 5, 8.5	M-3, 4.1, 4.2, 5, 6.1, M-6.2, 7, 8.1, 8.2, M-8.3, 8.4, 8.5
HFA-5	Strengthen disaster preparedness for effective response at all levels	PR-1.3, 3, <mark>4</mark> , 5, <mark>6</mark> , 7, PR-8, 10, 11,15, 16, PR-17 CBDM-3, <mark>CBDM-4</mark>	PR-1.5, 3, <mark>4</mark> , 5, <mark>6,</mark> 7, PR-8, 10, 11,15, 17 CBDM-3, <mark>CBDM-4</mark>	PR-1.2, 3, 4, 5, 6, 7, PR-8, 10, 11 CBDM-3, CBDM-4	PR-1.4, 3, <mark>4,</mark> 5, <mark>6</mark> , 7, PR-8, 10, 11,12, 14, PR-15, 17 CBDM-3, <mark>CBDM-4</mark>	PR-1.1, 1.6, 2, 3, 4, PR-5, 6, 7, 8, 9, 10, PR-11, 13, 14, 15, PR-16 17 CBDM-3, CBDM-4

Note: Unclassifiable P-7, 8, 9, 10, 11, 12, 13, 14, HVR-15, & CBDM-7

Highlighted in blue indicates that an activity is not implemented.

nor	No.	Project	Components	HFA	Target Areas
ban					
	J-1	The Study on storm water drainage plan for the Colombo metropolitan region	<ul> <li>Master Plan of flood control for Colombo metropolitan region</li> <li>F/S for prioritized project</li> <li>Technical transfer</li> </ul>	2-iii 3-ii	
	J-2	Recovery, Rehabilitation and Development Project for Tsunami Affected Area of Northern and Eastern Region	<ul> <li>Rehabilitation, recovery and development plan for tsunami affected areas</li> <li>Support and monitor grant aid projects of GoJ</li> <li>Share disaster experiences in Japan through the project</li> </ul>	4-i	
	J-3	Recovery, Rehabilitation and Development Project for Tsunami Affected Area of Southern Region	<ul> <li>Rehabilitation, recovery and development plan for tsunami affected areas of southern region</li> <li>Support and monitor grant aid projects of GoJ</li> <li>Share disaster experiences in Japan through the project</li> </ul>	4-i	
	J-4	Recovery, Rehabilitation and Development Project for Tsunami Affected Trunk Roads on the East Coast	<ul> <li>B/D for 4 causeways destroyed by tsunami</li> <li>F/S for trunk road on the east coast</li> <li>B/D for new Kalladi bridge</li> </ul>	4-i	
•	J-5	Comprehensive Study on Disaster Management	<ul> <li>comprehensive flood control plan for Kerani, Kal, Gin and Nilwara river</li> <li>Early warning system and pilot projects</li> <li>CBDRM</li> <li>Strengthening of capacity of related organizations</li> </ul>	2-ii 1-iii 2-iii	
	J-6	Preparatory Study for Flood Risk Management and Climate Change Adaptation in South Western Sri Lanka	<ul> <li>F/S for structural measures and non-structural measures in Kal river basin</li> <li>Flood control facilities in Kerani river basin and rehabilitation plan for drainage systems in Gin and Nilwara River basin</li> <li>Strengthning capacity for flood control of related organzations</li> </ul>	2-iii	
	J-7	Data Collection Survey on Road Protection against Natural Disasters (Landslide-disaster)	<ul> <li>Assesment of landslide damages to road infrastructures</li> <li>Identify issues for strengthening slope disaster management for national roads</li> </ul>	2-i	Uva Province, Central Province, Sabaragamuwa Province, Western Province
-	J-8	Tsunami and Conflict Affected Communities Upliftment Project in the North East Region	<ul> <li>Obtain techniques for livelihood</li> <li>Strengthen local community</li> <li>Promote social inclusion of inhabitant</li> <li>Improve capacity of administrative officers and NGOs for participatory development</li> </ul>	1-iii 2-iii 2-iii	
	J-9	Disaster Management Capacity Enhancement Project Adaptable to Climate Change	<ul> <li>Strengthen capacity for cordination of DMC</li> <li>Improve capacity for monitoring, analysis and forecasting of DOM</li> <li>Improve capacity for measures against landslides of NBRO</li> <li>Adequate function for early warning system from DMC to pilot areas</li> <li>Improve capacity for disaster management of all levels of ptocinces, districts and communities in pilot areas</li> </ul>	2-iii 2-iii 2-iii 2-ii 2-ii	
	J-10	Practical Community countermeasure for earthquake and tsunami disaster mitigation though PTA(Participatory Technology Assessment)	<ul> <li>Training in Japan</li> <li>Workshop</li> <li>Visit tsunami affected areas</li> </ul>	1-iii 3-ii	

Donor	No.	Project	Components	HFA	Target Areas
	J-11	Project on Promotion of Sustainable Disaster Mitigation Education and Trauma Counseling	- Education	3-ii	
	J-12	Sri Lanka Tsunami Affected Area Recovery and Takeoff (STAART) Project	- Recovery and rehabilitation and improvement of infrastructures affected by tsunami	4-i	
	J-13	Emergency Natural Disaster Rehabilitation Project	- Recovery , rehabilitation and improvement of national roads, provincial roads and irrigation facilities affected by torrential rain from December 2010 to February 2011	4-i	
	J-14	Greater Colombo Flood Control and Environmental Improvement Project	<ul> <li>Improvement of rivers in greater Colombo</li> <li>Ressettlement of shanty</li> <li>Procurement of equipments for operation and maintenance</li> <li>Consulting services</li> </ul>	4-i 4-iii	
	J-15	The Project for Improvement of Meteorological and Disaster Information Network	- AWS System - VSAT system - Central Operation System	2-ii 2-iii 3-iii	
	J-16	Emergency Aid for Flood Disaster		4-i	
	J-17	Emergency Aid for the 2004 Indian Ocean earthquake and tsunami disaster		4-i	
	J-18	Non Project Type Grant Aid (the 2004 Indian Ocean earthquake and tsunami disaster)		4-i	
	J-19	Emergency Aid for Flood Disaster (through IFRC)		4-i	
	J-20	Emergency Aid for Flood Disaster (through UNICEF)		4-i	
	J-21	The Digital Topographic mapping Project for Reconstruction of Northern Region	<ul> <li>Aerial photography of the entire Northern Region of Sri Lanka.</li> <li>Production of 1:10,000-scale topographic maps of Mannar and Jaffna Districts of Sri Lanka.</li> <li>Technology transfers for production of digital topographic maps through implementation of items above.</li> </ul>	2-i 2-i 2-iii	

nor	No.	Project	Components	HFA	Target Areas
3					
ľ	WB-1	Metro Colombo Urban Development	Component 1: Flood and Drainage Management	4-i	
		Project	Component 2: Urban development, infrastructure rehabilitation and capacity building for	2-ii	
			Metro Colombo local authorities	4-iii	
			Component 3: Implementation Support		
١	WB-2	Dam Safety and Water Resources	Component 1. Dam Safety and Operational Efficiency Improvement (Project cost \$53.14	4-i	
		Planning Project	million, of which IDA Credit \$47.36million)	2-ii	
			Component 2. Hydro-meteorological Information System Improvement (Project cost \$8.48 million, ofwhich IDA Credit \$8.48 million)	4-i	
			Component 3. Multi-sectoral Water Resources Planning (project cost \$6.49 million, of which IDA Credit \$6.49 million)		
			Component 4. Project Management, Monitoring and Evaluation (Project cost \$3.05 million, of which IDA Credit 3.00 million)		
1	WB-3	ARF Training on Developing a	The ARF Training on Developing a Common Framework for Post-Disaster Needs	3-ii	
		Common Framework for PDNA,	Assessment, Recovery and Reconstruction will be organized by the European Union and	5	
		Recovery and Reconstruction in Asia	Thailand in close cooperation with the World Bank and the United Nations Development		
		(Bangkok)	Programme in the framework of the EC-UN-WB Joint Declaration on Post-crisis		
			Assessments and Recovery Planning.		
			The training will focus on introducing main principles to undertake government-led Post-		
			Disaster Needs Assessment (PDNAs) to assess the socio-economic impacts and identify		
			the needs for recovery and reconstruction in the aftermath of a disaster. It will illustrate		
			how to assess human/social needs using the UN Human Recovery Needs Assessment		
			methodology (HRNA) and the impact and recovery/reconstruction needs using the		
			methodology for damage and loss assessments (DaLA). Practical case studies will be		
			presented, based on past PDNAs undertaken by the EC, WB/GFDRR (Global facility for		
			Disaster Reduction and Recovery) and UN/UNDP-BCPR in the framework of the		
			cooperation on PDNA and recovery planning to support disaster-stricken countries both in Asia and in other regions of the world.		
١	WB-4	DRR technical assistance to priority	Technical assistance for the preparation and implementation of DRR activities in focus	3-ii	
		countries in South Asia	countries identified and prioritized in the approved Country Plans. Country specific TORs		
			have been prepared.		

Donor	No.	Project	Components	HFA	Target Areas
	WB-5	Improving Sri Lanka's response and recovery in the aftermath of natural disaster	The objective of the proposed activity is to improve the capacity of the country?s disaster management system to improve the response and recovery activities in the aftermath of disasters. This would contribute to an improved response to the social protection and livelihoods needs of poor people affected by natural disasters. The proposed activity will seek to achieve these objectives by (i) assessing the institutional capacity and the needs of those affected; and (ii) providing training and capacity building of the safety net programs of the Ministry of Resettlement and Disaster Management, Ministry of Disaster Management and Human Rights and other relevant ministries designated by the GoSL to offer disaster relief and recovery services.	5 3-ii 2-iii	
	WB-6	Mainstreaming Disaster Risk Management in Sri Lanka	The primary objective of the proposed activity is to build the technical capacity of the Sri Lankan government to assess and quantify particular flood risk, and to formulate appropriate policy and operational responses to this risk. Given the urgency for the completion of Component One - Preparatory studies for Metro Colombo Urban Development Project (MC request from the DMC to organize a PDNA training during the last week of July 2011	2-iii 4-iii	
	WB-7	Emergency Northern Recovery Project	The Project Development Objective (PDO) is to support Government of Sri Lanka#s efforts to rapidly resettle the IDPs in the Northern Province by creating an enabling environment#. It will be achieved through: (A) Emergency Assistance to IDPs; (B) a Work-fare Program; (C) Rehabilitation and Reconstruction of Essential Public and Economic Infrastructure; and (D) Project Management Support.	4-i	
UNDP	UNDP-1	2003-2008: Transitional Recovery Support to Flood Disaster in Southwest Sri Lanka (TRSFD)	<ul> <li>To provide assistance to reconstruct the damaged infrastructure facilities in affected areas.</li> <li>To develop the capacity of National Disaster Management Centre (NDMC)</li> <li>To provide opportunities for establishing and strengthening DM coordination mechanisms at national and district level to respond to emergencies.</li> <li>To provide the assistance to rebuild life lines of the social fabric on priority basis who are worst affected due to flood.</li> </ul>	4-i 2-iii 5 4-i	flood and landslide prone areas of Kalutara, Galle, Matara and Hambantota districts
	UNDP-2	2006-2008 Capacity Building in Disaster Risk Management (CBDRM)	<ul> <li>Institutional strengthening - To implement DRM Framework/Roadmap developed by DMC for "safer Sri Lanka".</li> <li>Provisions of Physical (Hardware and software) and human resource to establish National Emergency Operation Room at DMC and provincial EOC.</li> <li>To develop disaster preparedness and response plans for National Ministies, Departments and authorities.</li> <li>To develop Multi Hazards Community contingency Plans at Villages/GN levels</li> <li>To carryout and develop Capacity Building of DM teams at various levels.</li> <li>To integrate hazard mapping into development process at the local levels.</li> <li>Training and awareness creations – To promote partnership with academic and Research institutions and private sector for engaging in DRM. (R &amp; D)</li> <li>To carryout awareness campaign on Disaster Mitigation and preparedness for all stakeholders, professional institutions, school and community.</li> </ul>	1-i 1-i 5 2-iii 2-i 3-i 3-ii 3-iv	

UNDP-8         2005-2007 Strengthening Early wassistance for Framework and Disaster Management Framework and Disaster Management Centre in Sri Lanka (PAEDP)         - Technical support (Consulting) for staff of the Disaster management Centre - Support To development of Training consciences and theration material for DMC         - 1           - Training and Capacity building for staff of the Disaster management Centre - Support To revelopment of Training consciences and theration material for DMC         - 1           - Training consciences         - 2111           - Provide physical and technical assistance on the proparation of Disaster PRA and Walking         - 2111           - Provide physical and technical assistance on the proparation of Disaster PRA and Walking         - 4111           - Training consciences to draft infrastructure development plans with disaster risk reduction forums         - 4111           - Reve biologic physical and technical assistance in establishing operation and bioastic risk reduction forums         - 4111           - Reve biologic physical and technical assistance in assistance and schools in Uxa and - 61004 materials to DMC for community based flood level monitoring network along vulnerable rise         - 4111           - Buiologic physical risk schools i	Donor	No.	Project	Components	HFA	Target Areas
Image: Provide the state of the st		UNDP-3	2005-2008: Preparatory assistance for	- Technical support (Consultancy) for the establishment and functioning of the DMC.	2-iii	
Image: Promework and Dissater Management         - Training and Capacity building for staff of the Dissater management Centre         2-iii           Centre in Sri Lanka (PAEDF)         - Support To development of Training conscious material for DNC.         1-i           of door and international agencies.         - Training/capacity building of intermediate level staff and volumers.         2-iii           - Provide Enchance assistance with initial stake holders: workshops, consultation meetings and coordination         3-i           - Training/capacity building of intermediate level staff and volumers.         2-iii           - Provide Enchance assistance on appropriate disaster resistant construction conters and websites         4-iii           - Technical assistance on appropriate disaster resistant construction technologies form mason and engineer. DisA         3-ii           - Worde Privater Allows (DRMP)         - Key stake holders to participate at national and provincial risk reduction forums         3-ii           - Budget = US\$ 699035         - Stabilishment of community based flood level monitoring network along vulnerable river inertable community of a ploi, integrated model for real-time land slide monitoring based on anong systems to improve anong systems to improve anong systems to improve anong system in Sri Lanka (FWSS)         - Stabilishment of a ploi, integrated model for real-time land slide monitoring based river anong stoffse in participation meeting systems to improve anong systems to improve anong systems to improve anong stoffse in store appropriate actions as voltablef in abastrestres of stranget Affectse in asstore of stranget Affe			Establishing Disaster Management	- Support to DMC to develop a DRM Road Map.	1-i	
ker         Centre in Sri Lanka (PAEDF)         - Support for development of initial communication materials on advecting for DMC.         1-1           version         - Assistance with initial stake holders' workshops, consultation meetings and coordination of donor and international agencies.         3-1           version         - Training/agencity building of intermediate level staff and volumeers.         2-iii           - Provide technical assistance in the preparation of Disaster preparedness and response         2-iii           - Provide physical and technical assistance on appropriate disaster resistant construction technologies form mass and and engineers. Disaster         2-iii           - Provide ment through partnerships         - Key stake holders to participate at national and provineit disk reduction forums         3-ii           UNDP-5         2005-2007 Strengthening Early warning system in Sri Lanka (EWSS)         - Straightening Early warning system in Sri Lanka (EWSS)         - Establishment of community level training and advocacy activities.         2-ii           UNDP-5         2006-2008: Sustainable Recovery of summary of institutions involved in early warning system in Sri Lanka (EWSS)         - Establishment of call warning systems such and ensure appropriate actions to avoid their adverse inpact.         2-iii           Version         2006-2008: Sustainable Recovery of summary of institutions involved in early warning systems to improve 2-ii         - Strengthening disemination mechanism of early warning systems to improve 2-iii           Version			Framework and Disaster Management	- Training and Capacity building for staff of the Disaster management Centre	2-iii	
VNDP-4         Jan 2009 - April 2009 Disaster Risk.         - Assistance with initial stake holders workshops, consultation meetings and coordination         1-ii 3-ii           VNDP-4         Jan 2009 - April 2009 Disaster Risk.         - Training/capacity building of Intermediate level staff and volunteers.         2-iii           VNDP-4         Jan 2009 - April 2009 Disaster Risk.         - Technical assistance in establishing operation centers and websites at Intermediate level.         3-ii           - Technical assistance on appropriate disaster resistant construction technologies form mason and engineers. D36         3-ii           - Support Inst is Lanke (DRMP)         - Support Inst volumetable community centres. Health centres and Schools in Uva and estern provinces to participate at national and provincial risk reduction forums         3-ii           - Provide by Boster Risk.         - Key stake holders to participate at national and provincial risk reduction forums         3-ii           - Technical assistance on appropriate disaster risk reduction forums         - Provide materials to DMC for community elevel training and advocacy activities.         1-ii           - Wide materials to DMC for community elevel training and advocacy activities.         1-iii         Implemented primarily in the landslide prone areas o anongst others forecast for multi hearts and ensure appropriate actions to avoid ther i adverse impact.         2-ii         2-iii           - Wide materials to DMC for community elevel to ensure and inglemented with theparticipation of the real-time precipitation measurements.			Centre in Sri Lanka (PAEDF)	<ul> <li>Support for development of 'initial' communication material for DMC.</li> </ul>	1-I	
Image: Provide the system in Sri Lanka (EVISS)         of donor and international agencies. - Training/aganchy building of intermediate level staff and volunteers. - Provide intermediate and CN levels. - Provide materials to level. - Training/aganchy building (levels) - Provide materials level. - Training/aganchy building (levels) - Provide materials level. - Training/aganchy building (levels) - Training/aganchy building (levels) - Provide materials to participate at national and provincial fisk reduction forums - Support most vulnerable community centres. Health centres and Schools in Uka and caster provinces to draft infrastructure devidement plans with dissister risk reduction main streamed. - Provide materials to DMC for community exerts. Health centres and Schools in Uka and caster provinces to draft infrastructure devidement plans with dissister risk reduction main streamed. - Provide materials to DMC for community level training and advocacy activities. - Provide materials to DMC for community level training and advocacy activities. - Strengthening Early warning system in Sri Lanka (EVISS) basins - Strengthening devide prove avails in work din early warning systems to improv - Strengthening devide prove avacuto. - Strengthening devide prove avacuto. - Strengthening devide prove avacuto. - Establishment of coal warning systems such as direns and independent divide provement plans. - Development of environment plans and implemented with the participation of the - Development of environment plans and mignemented with the participation of the - Development of Hazard, Vulnerability of Coasystem.				- Assistance with initial stake holder's workshops, consultation meetings and coordination	1-ii	
VINDP-4         Jan 2009 – April 2009 Disaster Risk, Management through partnerships (DRM-P) in Sri Lanka(DRMP) Budget – USS 699035         Key take holders to participate at national and provincial risk reduction forums Acy take holders to participate at national and provincial risk reduction forums (DRM-P) in Sri Lanka(DRMP) Budget – USS 699035         3-1           UNDP-5         2005-2007 Strengthening Early warning system in Sri Lanka (EWSS)         Support of community centres, Health centres and Schools in UVa and eastern provinces to draft infrastructure development plans with disaster risk reduction mass of a pice in the individue of the institution and encomposition of the institution mass instemed.         3-1           UNDP-5         2005-2007 Strengthening Early warning system in Sri Lanka (EWSS)         Subject or community based flood level monitoring network along vulnerable river - Strengthening of capacity of institutions involved in early warning systems to improve early cellstition measurements.         2-11           UNDP-6         2006-2008: Sustainable Recover of Natural Resources of Stuana (EWSS)         Statistionment of a pilot, integrated model for real-time land slide monitoring based on real-time procipition measurements.         2-11           VINDP-6         2006-2008: Sustainable Recover of Natural Resources of Stuana (MTected Coastai Areas of Stuana (MTected Coastai Areas of Stuana (MTected) - Strengthening dissemination mechanism of carly warning to communities.         2-11           VINDP-6         2006-2008: Sustainable Recover of Stuanability of Coassystem.         - Development of theory streng streng streng streng sto districi community         1-11         Imple				of donor and international agencies.	3-i	
VINDP-4         Jan 2009 – April 2009 Disaster Risk Management through participate at national and provincial risk reduction forums as an and engineers.D36         3-i           VINDP-4         Jan 2009 – April 2009 Disaster Risk Management through partnerships Budget = US\$ 699035         - Key state holders is participate at national and provincial risk reduction forums and and engineers.D36         3-i           VINDP-5         2005-2007 Strengthening Early warring system in Sri Lanka (DRWS) Budget = US\$ 699035         - Key state holders is participate at national and provincial risk reduction and streamed. - Provide materials to DMC for community level training and advocacy activities.         1-iii and streamed. - Provide materials to DMC for community level training and advocacy activities.         1-iii and streamed. - Provide materials to DMC for community level training and advocacy activities.         1-iii and streamed. - Provide materials to DMC for community level training and advocacy activities.         1-iii and streamed. - Provide materials to DMC for community level training and advocacy activities.         1-iii and streamed. - Provide materials to DMC for community level training and advocacy activities.         1-iii and streamed. - Provide materials to DMC for community level training and advocacy activities.         1-iii and streamed. - Provide materials to DMC for community level training and advocacy activities.         1-iii and streamed. - Provide materials to DMC for community level training asystems to improve an eact time precipitation messurements. - Strengthening disemination mechanism of early warning systems to avoid their - Bavelopment of environment plans and implemented withing tervicipation of the - Strengthening disemination mechanism of early warning to communities				<ul> <li>Training/capacity building of intermediate level staff and volunteers.</li> </ul>	2-iii	
VINDP-4         Jan 2009 – April 2009 Disaster Risk Management through partnerskie level. - Technical assistance on appropriate disaster resistant construction technologies form mason and engineers. D36         3-4           UNDP-4         Jan 2009 – April 2009 Disaster Risk Management through partnerskie (DRM-P) In Sri Lanka (DRMP) Budget – US\$ 699035         - Key stake holders to participate at national and provincial risk reduction forums - Support most vulnerable community contresk. Health centres and Schools In Uva and eastern provinces to draft infrastructure development plans with disaster risk reduction main streamed. - Provide materials to DMC for community level training and advocacy activities.         1-III           UNDP-5         2005-2007 Strengthening Early warning system in Sri Lanka (EWSS)         - Establishment of community based flood level monitoring network along vulnerable river - Stablishment of a pilot, integrated model for real-time land slide monitoring based on - Stablishment of a pilot, integrated model for real-time land slide monitoring based on - Stablishment of a pilot, warning systems to Improve - Strengthening of capserity of Institutions involved in early warning systems to Improve - Mark risk         2-III           UNDP-6         2006-2008: Sustainable Recovery of Natural Resources of Si Lanka With Poole - Cosstal Areas of Si Lanka with Poole - Strengthening dissemination mechanism of early warning to communities. - Participation (SRNRTA)         2-III         Implemented in Markara, Ampara, Baticalaa, - Markara, Baticalaa, - Amarkara, Baticalaa, - Varke risk - Strengthening disset managed by people affected by the tsunami whose livelihoods deepend on the sustainability of ecosystem. - Participation (SRNRTA)         1-III         Implemented in Markara, Bati				- Provide technical assistance in the preparation of Disaster preparedness and response	5	
Image: Provide physical and technical assistance in establishing operation centers and websites a line in mason and engineers D36         4-iii           UNDP-4         Jan 2009 – April 2009 Disaster Risk Management through partnerships (DRM-P) in Sti Lanka (DRMP)         - Support most vulnerable community centres, Health centres and Schools in Uva and estimate provinces to fait infrastructure development plans with disaster risk reduction forums         3-i           UNDP-5         2005-2007 Strengthening Early warning system in Sri Lanka (EWSS)         - Forvide materials to DMC for community level training and advoccay activities.         1-iii           - Stabilishment of a pilol, integrated model for real-time land slide monitoring based on real-time land slide monitoring based on real-time land slide monitoring based on real-time land slide prone areas o among stothers for easily maring systems to improve amongst others forecash for multi hazards and ensure appropriate actions to avoid ther adverse impact.         - Strengthening of capacity of institutions involved in early warning systems to improve amongst others forecash for multi hazards and ensure appropriate actions to avoid ther streamed.         - Forvide prevacution.         2-ii         2-ii           - Strengthening of capacity of institutions involved in early warning systems to improve amongst others forecash for multi hazer transformed and side monitoring and budgeakers.         - Mark critiki.         - Jiii         - Jiii           UNDP-6         2006-2008: Sustainable Recovery of note thirdening development of environment plans and implemented with the participation of the materials and ensere enstres and loudspeakers.         - Jiii				plan at intermediate and GN levels	2-iii	
UNDP-4         Jan 2009 – April 2009 Disaster Risk Management through partnerships (DRM-P) in Sri Lanka(DRMP)				- Provide physical and technical assistance in establishing operation centers and websites	4-iii	
UNDP-4         Jan 2009 – April 2009 Disaster Risk         - Rechnical assistance on appropriate disaster resistant construction technologies form mason and engineers. D36         3-1           UNDP-4         Jan 2009 – April 2009 Disaster Risk         - Key stake holders: to participate at national and provincial risk reduction forums         3-1           UNDP-5         Job 2005-2007 Strengthening Early         - Establishment of community level training and advocacy activities.         1-1ii           UNDP-5         2005-2007 Strengthening Early         - Establishment of a pilot, integrated model for real-time land slide monitoring based on east-rements.         2-1i         Frandition east-rements.           - Strengthening of capacity of institutions involved in early warning systems to improve amongst others forecast for multi bazards and ensure appropriate actions to avoid their adverse impact.         1-1ii         implemented primarily in the andslide prone areas o mass of the forecast for multi bazards and ensure appropriate actions to avoid their adverse impact.         2-1i           VINDP-6         2006-2008: Sustainable Recovery of Lanka with Peopler of sustainability of ecosystem.         - Development of avoiden and province and side for sustainability of ecosystem.         2-1ii           - Matura Resources of Tuanka with Peopler         - Development of sustainability of ecosystem.         - Raised avareness amongst selected communities and the district committee on the linkages between environment and disaster risk reduction at sustainability of ecosystem.         3-1i           - Voperationalize						
UNDP-4         Jan 2009 - April 2009 Disaster Risk Management through partnerships (DRM-P) in Sri Lanka(DRMP) Budget = USS 699035         - Key stake holders to participate at national and provincial risk reduction main streamed. - Provide materials to DMC for community level training and advocacy activities.         4-iii - 1-iii           UNDP-5         2005-2007 Strengthening Early warning system in Sri Lanka (EWSS)         - Establishment of a pilot, integrated model for real-time land slide monitoring network along vulnerable river basins - Establishment of a pilot, integrated model for real-time land slide monitoring based on real-time precipitation measurements. - Strengthening of capacity of institutions involved in early warning systems to improve amongst others for ceast for multi hazards and ensure appropriate actions to avoid their adverse impact. - Strengthening dissemination mechanism of early warning to communities. - Development gludeline s for evacuation. - Establishment of local warning systems such as sirens and loudspeakers. - Mark drilik - Obvelopment gludeline s for evacuation. - Establishment of local warning systems such as sirens and loudspeakers. - Development gludeline s for evacuation. - Establishment of local warning systems such as sirens and loudspeakers. - Development gludeline s for evacuation. - Establishment of local warning systems such as sirens and loudspeakers. - Development gludeline s for evacuation. - Establishment of ecosystem. - Raised awareness amongst selected communities and the district committee on the linkages between environment and disset risk reduction         1-iii + Hambantota, Matara, Ampara, Baticaloa, - Ampara, Baticaloa, - Ampara, Baticaloa, - Promotion of Climate risk management the community level.         1-iii - Raised awareness - Substitubinement of sustar Management the community level.         1-iii - Cosystem Streng Strengthen				mason and engineers.D36		
Image ment through partnerships (DRM-P) in Sri Lanka(DRMP) Budget = US\$ 699035         - Support most vulnerable community certain frastructure development plans with disaster risk reduction main streamed. - Provide materials to DMC for community level training and advocacy activities.         4-iii - Rise - Rise and register in the stream of the stre		UNDP-4	Jan 2009 – April 2009 Disaster Risk	- Key stake holders to participate at national and provincial risk reduction forums	3-i	
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Budget =US\$ 699035         main streamed. - Provide materials to DMC for community level training and advocacy activities.         3-ii           UNDP-5         2005-2007 Strengthening Early warning system in Sri Lanka (EWSS)         - Establishment of community based flood level monitoring network along vulnerable rive basins         1-iii         Implemented primarily in the landslide prone areas o - Establishment of a pilot, integrated model for real-time land silde monitoring based on real-time precipitation measurements.         2-ii         Ratnapura district           2-ii         - Strengthening dissemination mechanism of early warning systems to improve amongst others forecast for multi hazards and ensure appropriate actions to avoid their adverse impact.         1-iii         implemented in           - Development of fload warning systems such as sirens and loudspeakers. - Development of fload warning systems.         1-iii         implemented in           - Development of environment plans and implemented with the participation of the stabilishment of such awarning system. - Raised awareness amongst selected communities and the district committee on the linkages between environment and disaster risk reduction         1-iii         Ampara, Baticaloa, Trincomalee districts           UNDP-7         2008-2012 Strategic Support to "Operationalize the Road Map Towards Safer Sri Lanka" (SSORM)         Development of Hazard, Vulnerability and Risk Report for Sri Lanka. - Sustainable Disaster risk reduction approaches mainstreamed into Development Inhanica active consumity level. - Promotion of Climate risk management in project implementation and management - Sustainable Disaster risk reductin approaches mai			(DRM-P) in Sri Lanka(DRMP)	eastern provinces to draft infrastructure development plans with disaster risk reduction	1-iii	
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Image: Normal and the state of the				- Development guideline s for evacuation.	2-iii	
WNDP-6       2006-2008: Sustainable Recovery of Natural Resources of Tsunami Affected Coastal Areas of Sri Lanka with People' s Participation (SRNRTA)       - <u>Mock drills</u> 1-iii community       1-iii - Development of environment plans and implemented with the participation of the community       1-iii + i       Ampara, Baticaloa, Ampara, Baticaloa, Trincomalee districts         UNDP-7       2008-2012 Strategic Support to "Operationalize the Road Map Towards Safer Sri Lanka" (SSORM) Budget \$ 2,100,000       - Development of Hazard, Vulnerability and Risk Report for Sri Lanka.       1-i Establishment of tsunami and multi-hazard warning systems at district level.       2-ii - Sustainable Disaster Risk reduction approaches mainstreamed into Development Planning.       1-iii - Promotion of Climate risk management at the community level.       1-iii - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Monagement in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of Disaster Management in project implementation and management - Support Ministry of				- Establishment of local warning systems such as sirens and loudspeakers.		
UNDP-6       2006-2008: Sustainable Recovery of Natural Resources of Tsunami Affected coastal Areas of Sri Lanka with People' s Participation (SRNRTA)       - Development of environment plans and implemented with the participation of the community       1-iii       implemented in Hambantota, Matara, Ampara, Baticaloa,         UNDP-7       2008-2012 Strategic Support to "Operationalize the Road Map Towards Safer Sri Lanka" (SSORM) Budget \$ 2,100,000       - Development of Hazard, Vulnerability and Risk Report for Sri Lanka.       1-i       2-ii         - Promotion of Climate risk management at the community level.       - Promotion of Climate risk management at the community level.       4-i       3-iii         - Promotion of DRR as a subject of Study in research institutions and schools.       - System for receiving images from Korean weather satellite       2-iii				- Mock drills		
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Coastal Areas of Sri Lanka with People'       - Ecosystems are managed by people affected by the tsunami whose livelihoods depend on the sustainability of ecosystem.       3-iv       Ampara, Baticaloa,         UNDP-7       2008-2012 Strategic Support to "Operationalize the Road Map Towards Safer Sri Lanka" (SSORM) Budget \$ 2,100,000       - Development of Hazard, Vulnerability and Risk Report for Sri Lanka.       1-i       2-ii         - Sustainable Disaster Risk reduction approaches mainstreamed into Development Planning.       - Sustainable Disaster Risk reduction approaches mainstreamed into Development Planning.       1-ii         - Promotion of DRR as a subject of study in research institutions and schools.       3-ii       3-iii         - System for receiving images from Korean weather satellite       2-ii			Natural Resources of Tsunami Affected	community	4-i	Hambantota, Matara,
s Participation (SRNRTA)       on the sustainability of ecosystem.       3-iv       Trincomalee districts         UNDP-7       2008-2012 Strategic Support to       - Development of Hazard, Vulnerability and Risk Report for Sri Lanka.       1-i         Safer Sri Lanka" (SSORM)       - Sustainable Disaster Risk reduction approaches mainstreamed into Development       4-iii         Budget \$ 2,100,000       - Promotion of Climate risk management at the community level.       4-i         - Promotion of DRR as a subject of study in research institutions and schools.       3-iii         - Sustem for receiving images from Korean weather satellite       2-ii			Coastal Areas of Sri Lanka with People'	- Ecosystems are managed by people affected by the tsunami whose livelihoods depend		Ampara, Baticaloa,
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UNDP-7       2008-2012 Strategic Support to "Operationalize the Road Map Towards Safer Sri Lanka" (SSORM) Budget \$ 2,100,000       - Development of Hazard, Vulnerability and Risk Report for Sri Lanka.       1-i         - Establishment of tsunami and multi-hazard warning systems at district level.       2-ii         - Sustainable Disaster Risk reduction approaches mainstreamed into Development       4-iii         - Promotion of climate risk management at the community level.       4-i         - Promotion of DRR as a subject of study in research institutions and schools.       3-ii         - Support Ministry of Disaster Management in project implementation and management       2-ii         Korea       K-1       COMS Project       - System for receiving images from Korean weather satellite       2-ii				linkages between environment and disaster risk reduction		
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Safer Sri Lanka" (SSORM)       - Sustainable Disaster Risk reduction approaches mainstreamed into Development       4-ii         Budget \$ 2,100,000       Planning.       1-iii         - Promotion of climate risk management at the community level.       4-i         - Promotion of DRR as a subject of study in research institutions and schools.       3-ii         - Support Ministry of Disaster Management in project implementation and management       2-iii         Korea       K-1       COMS Project       - System for receiving images from Korean weather satellite       2-ii			"Operationalize the Road Map Towards	- Establishment of tsunami and multi-hazard warning systems at district level.	2-ii	
k       Budget \$ 2,100,000       Planning.       1-iii         - Promotion of climate risk management at the community level.       4-i         - Promotion of DRR as a subject of study in research institutions and schools.       3-ii         - Support Ministry of Disaster Management in project implementation and management       2-iii         Korea       K-1       COMS Project       - System for receiving images from Korean weather satellite       2-ii			Safer Sri Lanka" (SSORM)	- Sustainable Disaster Risk reduction approaches mainstreamed into Development	4-iii	
Korea       K-1       COMS Project       - System for receiving images from Korean weather satellite       2-ii			Budget \$ 2,100,000	Planning.	1-iii	
Korea       K-1       COMS Project       - System for receiving images from Korean weather satellite       2-iii				- Promotion of climate risk management at the community level.	4-i	
Korea       K-1       COMS Project       - System for receiving images from Korean weather satellite       2-ii         3-iii       - System for receiving images from Korean weather satellite       2-ii				<ul> <li>Promotion of DRR as a subject of study in research institutions and schools.</li> </ul>	3-ii	
Korea       K-1       COMS Project       - System for receiving images from Korean weather satellite       2-ii         3-iii       -       -				- Support Ministry of Disaster Management in project implementation and management	2-iii	
	Korea	K-1	COMS Project	- System for receiving images from Korean weather satellite	2-ii	
					3-iii	
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## Annex 2: List of Projects assisted by JICA and other Donors

Donor	No.	Project	Components	HFA	Target Areas
China	C-1	CMAcast Project	- System for receiving images from Chinese weather satellite	2-ii 3-iii	
USA	USA-1	GTS Project	- System for transmission and reception to world climate information system	2-ii 3-iii	
Italia	Ita-1	Hyper DEM Project	- LIDAR survey along the coast with 2km width	2-i	
GIZ	GIZ-1	Education for Social Cohesion	<ul> <li>Curriculum and teacher's manual development on disaster risk management</li> <li>In-service training for teachers at 17 teacher colleges and 92 local centers at province level</li> <li>National standards for school safety have been drawn up and are being implemented in schools through the country. (school disaster safety activity at selected 200 pilot schools by 2012) (Phase 2 starts from 2013, targeting all primary/junior secondary schools in the country)</li> </ul>	2-ii	Countrywide

Priority Area	Key A	ctivities	Flood	Landslide	Drought	Tsunami	Others(including Meteorology)
	(i)	National institutional and legislative frameworks	UNDP-2, 3, 7	UNDP-2, 3, 7	UNDP-2, 3, 7	UNDP-2, 3, 7	UNDP-2, 3, 7
HFA-1	(ii)	Resources	UNDP-3	UNDP-3	UNDP-3	UNDP-3	UNDP-3
	(iii)	Community participation	<b>J-5</b> UNDP-4,5,7	UNDP-4, 5, 7	UNDP-4, 5, 7	J-8, 10 UNDP-6	UNDP-4, 5, 7
	(i)	National and local risk assessments	UNDP-2	<b>J-7</b> UNDP-2	UNDP-2	UNDP-2	J-21 UNDP-2 Ita-1
HFA-2	(ii)	Early warning	<b>J-5, <u>9</u> <u>WB-2</u> UNDP-5, 7 K-1 C-1 USA-1</b>	<b>J-<u>9</u> UNDP-5,</b> 7 K-1 C-1 USA-1	UNDP-5, 7 K-1 C-1 USA-1	UNDP-7	J-15 <u>WB-2</u> UNDP-5,7 K-1 C-1 USA-1
	(iii)	Capacity	<b>J-1, 5, 6,</b> 9 <u>WB-1,</u> 5, 6 UNDP-1, 2, 3, 5, 7	<b>J-5, <u>9</u></b> WB-5, 6 UNDP-1, 2, 3, 5, 7	J-5, 9 WB-5, 6 UNDP-1, 2, 3, 5, 7	<b>J-5, 8, 9</b> WB-5, 6 UNDP-1, 2, 3, 5, 7	<b>J-5, <u>9</u>, J-15</b> WB-5, 6 UNDP-1, 2, 3, 5, 7
	(iv)	Regional and emerging risks					
	(i)	Information management and exchange	UNDP-2, 3, 4	UNDP-2, 3, 4	UNDP-2, 3, 4	UNDP-2, 3, 4	UNDP-2, 3, 4
HFA-3	(ii)	Education and training	<b>J-1</b> WB-3, 4, 5 UNDP-2, 4, 7 GIZ-1	WB-3, 4, 5 UNDP-2, 4, 7 GIZ-1	WB-3, 4, 5 UNDP-2, 4, 7 GIZ-1	<b>J-10, 11</b> UNDP-2, 4, 7 GIZ-1	WB-3, 4, 5 UNDP-2, 4, 7 GIZ-1
	(iii)	Research	J-15 K-1 C-1 USA-1	J-15 K-1 C-1 USA-1	J-15 K-1 C-1 USA-1		J-15 K-1 C-1 USA-1
	(iv)	Public awareness	UNDP-2	UNDP-2	UNDP-2	UNDP-2, <b>6</b>	UNDP-2
	(i)	Environmental and natural resource management	UNDP-7	UNDP-7	UNDP-1,7	UNDP <b>-</b> 1, <b>6</b> , 7	UNDP-1, 7
HFA-4	(ii)	Social and economic development practices					
	(iii)	Land-use planning and other technical measures	<b>J-14</b> <u><i>WB-1,</i></u> 6 UNDP-3, 4, 7	WB-6 UNDP-3, 4, 7	WB-6 UNDP-3, 4, 7	WB-6 UNDP-3, 4, 7	WB-6 UNDP-3, 4, 7
HFA-5	Streng all lev	gthen disaster preparedness for effective response at els	WB-3, 5 UNDP-1, 2, 3, 5	WB-3, 5 UNDP-1, 2, 3, 5	WB-3, 5 UNDP-1, 2, 3, 5	WB-3, 5 UNDP-1, 2, 3, 5	WB-3, 5 UNDP-1, 2, 3, 5
Structural	Measu	res	J-14 <u>WB-1, 2</u> <u>C-2</u>		<u>WB-2</u>		
Emergenc	y Meas	ures	J-13, 16, 19, 20 <u>WB-8</u> UNDP-1	UNDP-1		J-2, 3, 4, 12, 17, 18	WB-7

\*J-1, etc.: Project Number shown in Annex 1

Italic with underline: on-going or proposed projects.

No bold type: Not specific projects for specific type of disasters, Overall projects such as disaster management, meteorological management \*Highlighted in yellow indicates great discrepancy, and light yellow indicates small discrepancy.

## **ANNEX 4: Impacts of Disasters**

No.	1	2	3	4	5	6	7	8	9	10	11
Natural Disaster	Landslide	Flood	Drought	Earthquake	Tsunami	Cyclones	Tornado/	Coastal erosion	Lightning	Forest fires	Epidemics
							Strong Wind				
No. of records	2,483	9,080	1,997	82	89	192	3,864	78	446	149	88,833
No. of deaths	896	519	2	0	30,959	855	88	0	374	1	368
No. of injured	302	322	0	0	19,611	600	416	1	389	0	0
No. of missing	39	19	1	0	1,908	21	15	0	3	0	0
No. of houses destroyed	2,239	49,176	10	1	57,085	31,324	3,834	135	21	16	0
No of houses damaged	10,152	157,435	78	103	48,208	148,408	36,728	386	183	17	0
No. of peoples affected	120,384	13,900,794	12,922,514	70	1,076,240	1,690,930	278,469	3,223	1,629	187	588,797
No. of peoples relocated	348	33	0	0	0	0	16	0	0	0	0
No. of peoples evacuated	2,798	74,093	600	0	0	3,941	1,375	646	3	10	0
No. of lost cattle	0	0	0	0	0	0	0	0	0	0	4,149,120

## Damage and Impacts of Natural Hazaeds

Note, Data from DesInventar Sri Lanka, Recording Period from Jan/1974 to Sep/2012

### Disaster Impact Score based on Damage and Impacts of Natural Hazards

No.	1	2	3	4	5	6	7	8	9	10	11
Natural Disaster	Landslide	Flood	Drought	Earthquake	Tsunami	Cyclones	Tornado/	Coastal erosion	Lightning	Forest fires	Epidemics
							Strong Wind				
No. of records	8	10	7	2	3	5	9	1	6	4	11
No. of deaths	10	7	4	1	11	9	5	1	6	3	8
No. of injured	6	7	1	1	11	10	9	5	8	1	1
No. of missing	10	8	5	1	11	9	7	1	6	1	1
No. of houses destroyed	7	10	3	2	11	9	8	6	5	4	1
No of houses damaged	7	11	3	4	9	10	8	6	5	2	1
No. of peoples affected	5	11	10	1	8	9	6	4	3	2	7
No. of peoples relocated	11	10	1	1	1	1	9	1	1	1	1
No. of peoples evacuated	9	11	6	1	1	10	8	7	4	5	1
No. of lost cattle	1	1	1	1	1	1	1	1	1	1	11
Total Score	74	86	41	15	67	73	70	33	45	24	43

\* Score given based on the order of each item above; No.1 of the item can be given 11 points. If data is 0, score is 1 point.

: Top 3 types of natural hazards in each item.

No.	1					
Kind of Natural Disaster	Landslida					
1 Damages in historical record *1	Lanushu					
No. of records	2.483					
No. of deaths	2,403					
No. of deaths	890					
No. of injured	302					
No. of missing						
No. of houses destroyed	2,239					
No of houses damaged	10,152					
No. of peoples affected	120,384					
No. of peoples relocated	348					
No. of peoples evacuated	2,798					
No. of lost cattle	0					
2. Degree of impact to country						
Frequency of occurrence	Very high					
Area spread	High					
Loss and damages	Lich					
Impact on population	High					
3. Present efforts of DM						
Management framework	<ul> <li>NBRO is recognized as the leading agency in the technical aspect.</li> <li>NBRO is preparing the draft act related to the landslide.</li> </ul>					
Risk assessment	<ul> <li>- 1:50,000 scale hazard map have been developed in the hillside landslide prone areas.</li> <li>- 1:10,000 scale hazard maps is being prepared.</li> </ul>					
Early warning	<ul> <li>NBRO is conducting the early warning for the landslide prone districts based on the rainfall data from DOM.</li> <li>36 AWS (DOM) and the pilot early warning system in Galaboda and Mahawewa installed by DiMCEP.</li> </ul>					
Response	<ul> <li>National and district level DMCCs have been established.</li> <li>District level disaster management and response plans were prepared or are being revised.</li> <li>District level search and rescue teams were established.</li> </ul>					
Mitigation works	<ul> <li>Small scale emergency works have been implemented by DMC and the district secretariats.</li> <li>4 mitigation works are being conducted by NBRO.</li> <li>New regulation concerning the land suitability certificate or recommendation by NBRO has been issued for the new development/construction activities in the hillside landslide prone areas.</li> <li>The school disaster safety plan are being prepared.</li> <li>Land use plan in the central fragile areas are being prepared by the NPPD in association with NBRO.</li> </ul>					
Awareness/education	- The pilot projects of school education and CBDRM are being implemented.					
4. Future prospect of DM						
Management frame work	- The landslide act shall be ratified					
Wanagement frame work	- The fandshue act shall be fathled.					
Risk assessment	- Revised landslide zoning maps shall be prepared in order to clarify the potential areas of the sediment related disasters based on the new base maps in cooperation with Survey Department.					
Early warning	<ul> <li>The early warning system for the districts shall be improved by NBRO in corporation with DOM.</li> <li>The early warning at the respective landslide sites shall be installed.</li> </ul>					
Response	- Present system shall be maintained and improved through the continuous training.					
Mitigation works	<ul> <li>Capacity to mitigate the sediment related disasters shall be enhanced in NBRO and the implementing agencies.</li> <li>Appropriate countermeasures of the landslide sites shall be conducted, considering the national physical plan.</li> </ul>					
Awareness/education	- Present activities shall be systemized and continued, considering the national physical plan.					
5. Discrepancy between the present	Great					
condition and the future prospect						
Management frame work	Great					
Risk assessment	Great					
Early warning	Great					
Response	Small (training)					
Mitigation works	Great					
Awareness/education	Great					

No.	2					
Kind of Natural Disaster	Flood					
1 Damages in historical record *1						
No. of records	0.080					
No. of deethe	5,080					
No. of deaths	319					
No. of injured						
No. of missing						
No. of houses destroyed	49,176					
No of houses damaged	157,435					
No. of peoples affected	13,900,794					
No. of peoples relocated	33					
No. of peoples evacuated	74,093					
No. of lost cattle	0					
2. Degree of impact to country						
Frequency of occurrence	Extremely high					
Area spread	Very high					
Loss and damages	Very high					
Impact on population	Very high					
3. Present efforts of DM						
Management framework	- There are many responsible agencies for the flood: ID, MASL, CEB, NWS&DB, the district					
C C	secretariats, municipal councils/local authorities, SLLRDC, Agrarian Services Department and					
	CC&CRMD in their jurisdictional areas					
	- ID has the flood protection ordinance of the rivers, but the responsibility is limited					
Rick assessment	The event base flood bazard maps for 4 river basins has been prepared					
Kisk assessment	The event base nood nazard maps for 4 river basins has been prepared.					
Eastry warning	Two (2) contracting systems in place (Kalani Kalu)					
Early warning	- 1 wo (2) early waining systems in place (Kelani, Kalu)					
	- 56 Aws in operation (DOM)					
	- Hydro-meteorological data collection network and information system are being updated					
	(DSWRPP)					
Response	- National and district level DMCC were established.					
	- National and District level disaster management and response plans were prepared or are					
	being revised.					
	- District level search and rescue teams were established.					
Mitigation works	- Aging and critical infrastructure facilities are being rehabilitated /improved (DMC, District					
	Secretariats).					
	- Large dams are being rehabilitated (DSWRPP).					
	- Desilting works of the tanks are being done (ID, MASL)					
	- Urban flood measures are being studied and implemented: Metro Colombo (SLLR&DC-WB),					
	Batticaloa (ID)					
	- Integrated flood management master plans in the south western Sri Lanka were prepared.					
	However the master plans are not authorized by the residents in the basins					
	Towever, the master plans are not admonized by the residents in the busins.					
Awareness/education	- The pilot projects of school education and CBDRM are being implemented					
1 Wareness, education	- Material for awareness were prepared					
4 Future prospect of DM	- Material for awareness were prepared.					
4. Future prospect of DW	The basin wide accordination framework shall be made, based on the existing water					
Management frame work	- The basin-wide coordination framework shall be made, based on the existing water					
Distractor	The fleed herend more for the represtive river being shall be menored by the D in					
Risk assessment	- The flood nazard maps for the respective river basins shall be prepared by the ID in					
	cooperation with Survey Department.					
Early warning	- The early warning systems for respective flood prone areas shall be installed.					
Response	- Present system shall be maintained and improved through the continuous training.					
Mitigation works	- The flood management policies and master plans of respective basins shall be prepared under					
	the condition of public participation.					
	- Appropriate flood mitigation works shall be conducted in accordance with the master plan.					
Awareness/education	- Present activities shall be systemized and continued.					
5. Discrepancy between the present	Great					
condition and the future prospect						
Management frame work	Great					
Risk assessment	Great					
Early warning	Great					
Response	Small (training)					
Mitigation works	Great					
Awareness/education	Great					

No.	3					
Kind of Natural Disaster	Drought					
1. Damages in historical record *1						
No. of records	1,997					
No. of deaths	2					
No. of injured						
No of missing						
No. of houses destroyed						
No of houses damaged						
No of peoples affected	10.000 5					
No. of peoples relocated	0					
No. of peoples relocated	600					
No. of peoples evacuated	000					
No. of lost cattle	0					
2. Degree of impact to country						
Frequency of occurrence	Very high					
Area spread	Very high					
Loss and damages	High					
Impact on population	Very high					
3. Present efforts of DM						
Management framework	-There are many responsible agencies related to the water and agriculture, such as WRB, DOM, ID, MASL, DOA, Agrarian Services Department, HART, FOs, etc.					
Risk assessment	- The hazard map of the country has been developed based on the weather records, under coordination by DMC and UNDP.					
Early warning	- DOM issues the season weather forecast.					
Response	<ul> <li>National and district level DMCC were established.</li> <li>National and District level disaster management and response plans were prepared or are being revised.</li> </ul>					
Mitigation works	<ul> <li>Rehabilitation of capacities of the existing storage facilities is being done by ID and MASL under MI&amp;WRM.</li> <li>Ground water development are being done by WRB.</li> <li>DOA is studying the countermeasures against drought, such as the crop changeover, etc.</li> <li>National plan for drought mitigation was prepared.</li> <li>Small scale emergency works have been implemented by DMC and the district secretariats.</li> </ul>					
Awareness/education	- Awareness is implemented through FOs.					
4. Future prospect of DM						
Management frame work	- DMC shall be lead coordination agency of the drought.					
Risk assessment	- Risk assessment under the condition of climate change shall be under taken.					
Early warning	- DOM shall enhance the forecast accuracy.					
Response	- Present system shall be maintained and improved through the continuous training.					
Mitigation works	- Present activities should be continued.					
Awareness/education	- Present activities should be continued and accelerated.					
5. Discrepancy between the present	Small					
condition and the future prospect						
Management frame work	Small					
Risk assessment	No					
Early warning	Great (meteorology)					
Response	Small (training)					
Mitigation works	No					
Awareness/education	Small					

No.	4					
Kind of Natural Disastar	T Forthqueke					
1. Domogos in historical record *1	Lai tiquake					
1. Damages in historical fecolul +1	02					
No. of fecolds	82					
No. of deaths	0					
No. of injured						
No. of missing						
No. of houses destroyed						
No of houses damaged	1					
No. of peoples affected	70					
No. of peoples relocated	0					
No. of peoples evacuated	0					
No. of lost cattle	0					
2. Degree of impact to country						
Frequency of occurrence	Rare					
Area spread	Significant					
Loss and damages	Significant					
Loss and damages						
2 Descent of contraction	Significant					
3. Present efforts of DM						
Management framework	- GSMB is recognized as the lead agency of earth quake. - There is no significant earth quake in Sri Lanka, except small tremors in the eastern part.					
Risk assessment	- No risk assessment is done					
Early warning	- Global seismic activities including the observation in Sri Lanka are monitored by GSMB through GSN, and the warning is issued,					
Response	<ul> <li>National and district level DMCC were established.</li> <li>National and District level disaster management and response plans were prepared or are being revised.</li> </ul>					
	- District level search and rescue teams were established					
Mitigation works	<ul> <li>The Construction Guideline Committee of the National DM Advisory Committee has issued a Construction guideline.</li> <li>The school disaster safety plan are being prepared.</li> </ul>					
Awareness/education	- Awareness activities of the construction guideline are being done.					
4. Future prospect of DM						
Management frame work	- Present framework shall be maintained.					
Risk assessment	- Observation and research of the tremor/earthquake shall be continued.					
Early warning	- Present activities shall be maintained.					
Response	- Present system shall be maintained and improved through the continuous training.					
Mitigation works	- Enforcement of the construction guideline shall be done not only for the earthquake but also for the other disasters.					
Awareness/education	- Awareness activities for the construction guidelines shall be strengthened.					
5. Discrepancy between the present	Small					
condition and the future prospect						
Management frame work	No					
Risk assessment	No					
Early warning	No					
Response	Small (training)					
Mitigation works	No					
Awareness/education	Small					

No.	5					
Kind of Natural Disastar	Taunami					
1 Demonstrational distantianal #1	Isunann					
1. Damages in historical record *1						
No. of records	89					
No. of deaths	30,959					
No. of injured	19,					
No. of missing	1.9					
No. of houses destroyed	57					
No of houses damaged						
No. of peoples affected	1 076 240					
No. of peoples affected	1,070,240					
No. of peoples relocated	0					
No. of peoples evacuated	0					
No. of lost cattle	0					
2. Degree of impact to country						
Frequency of occurrence	Rare					
Area spread	High					
Loss and damages	Very high					
Loss and damages	Extromaly High					
3. Present efforts of DM						
Management framework	<ul> <li>CC&amp;CRMD is in charge of the coast area conservation except the national park areas.</li> <li>Tsunami Early Warning Committee consisting of secretary of MDM, heads of NARA, DMC, DOM and CC&amp;CRMD was established.</li> </ul>					
Risk assessment	- Tsunami hazard maps along the coastline of the country have been prepared by CC&CRMD, EDC of University of Paradeniya, DMC and UNDP.					
Early warning	<ul> <li>Based on the GSN information, the Tsunami Early Warning Committee will issue the warning.</li> <li>Dissemination system of the warning, including warning towers, were established by DMC through the various measures.</li> </ul>					
Response	<ul> <li>National and district level DMCC were established.</li> <li>National and District level disaster management and response plans were prepared or are being revised.</li> <li>District level search and rescue teams were established</li> </ul>					
Mitigation works	<ul> <li>New coastal zone management plan are being developed by CC&amp;CRMD, based on the National Physical Plan and the Urban Development Plan.</li> <li>Coastal area construction permit and land use regulation, such as setback, buffer zone, etc., are being implemented by CC&amp;CRMD.</li> <li>Planting for the shelter belt along the coastal line is being implemented.</li> <li>The school disaster safety plan are being prepared.</li> </ul>					
Awareness/education	- Awareness activities of the communities are being implemented.					
4. Future prospect of DM						
Management frame work	- Present framework shall be maintained.					
Risk assessment	- Research activities for Tsunami shall be continued.					
Early warning	- Present system shall be maintained and improved.					
Response	- Present system shall be maintained and improved through the continuous training					
Mitigation works	- Present system shall be maintained and improved					
wittgation works	- Tresent system shan be maintained and improved.					
Awareness/education	- Present system shall be maintained and improved in order to make a culture against Tsunami.					
5. Discrepancy between the present	Small					
condition and the future prospect						
Management frame work	No					
Risk assessment	No					
Farly warning	No					
Daily waining Dosponee	Small (training)					
Milligation works						
Awareness/education	Small					

No.	6					
Kind of Natural Disaster	Cyclones					
1 Damages in historical record *1	Cyclones					
No. of records	102					
No. of deaths	855					
No. of injured	600					
No. of injured	6					
No. of missing						
No. of houses destroyed	31,3					
No of houses damaged	148,4					
No. of peoples affected	1,690,930					
No. of peoples relocated	0					
No. of peoples evacuated	3,941					
No. of lost cattle	0					
2. Degree of impact to country						
Frequency of occurrence	Rare					
Area spread	High					
Loss and damages	Very high					
Impact on population	Very high					
3. Present efforts of DM						
Management framework	- DOM is in charge of observation of the cyclone/ storm.					
	- DMC is in charge of coordination of the disaster response					
	- Divice is in charge of coordination of the disaster response.					
Distransport	Deced on the charmond data from 1058 to 2000, treads of the starma and evaluate success and					
RISK assessment	- Based on the observed data from 1958 to 2009, track of the storms and cyclones, average and					
	maximum wind speed distributions in the country were developed, under coordination by DMC					
	and UNDP.					
Early warning	- DOM issues the warning and DMC disseminates the warning to the public.					
Response	- National and district level DMCC were established.					
	- National and District level disaster management and response plans were prepared or are					
	being revised.					
	- District level search and rescue teams were established.					
Mitigation works	- The Construction Guideline Committee of the National DM Advisory Committee has issued a					
	Construction guideline.					
	- The school disaster safety plan are being prenared					
	The senser disaster surely plan are sening prepared.					
· · · · · · · · · · · · · · · · · · ·						
Awareness/education	- Awareness activities of the construction guideline are being done.					
4. Future prospect of DM						
Management frame work	- Present framework shall be maintained.					
Risk assessment	- Research activities for the cyclones/storms shall be continued.					
Early warning	- Present system shall be maintained and improved.					
Response	- Present system shall be maintained and improved through the continuous training					
Mitigation works	- Enforcement of the construction guideline shall be done					
Witigation works	Public facilities, such as the government offices, schools, hespitals, etc., shall be strengthened					
	in accordance with the construction guideline					
	in accordance with the construction guideline.					
Awareness/education	- Awareness activities for the construction guidelines shall be strengthened.					
5. Discrepancy between the present	Small					
condition and the future prospect						
Management frame work	No					
Risk assessment	No					
Early warning	Great (Meteorology)					
Response	Small (training)					
Mitigation works	No					
Awareness/education	Small					

No	7					
Kind of Natural Disaster	Tornado/ Strong Wind					
1. Damages in historical record *1						
No. of records	3,864					
No. of deaths	88					
No. of injured	416					
No. of missing	т Т					
No. of missing						
No. of houses destroyed	3,8					
No of houses damaged	36,7					
No. of peoples affected	278,469					
No. of peoples relocated	16					
No. of peoples avacuated	1 275					
No. of peoples evacuated	1,575					
No. of lost cattle	0					
2. Degree of impact to country						
Frequency of occurrence	Very high					
Area spread	High					
Loss and damagas	Ligh					
Impact on population	High					
3. Present efforts of DM						
Management framework	- DOM is in charge of observation of the cyclone/ storm.					
	DMC is in charge of coordination of the disaster response					
	- Divic is in charge of coordination of the disaster response.					
Risk assessment	- Based on the observed data from 1958 to 2009, track of the storms and cyclones, average and					
	maximum wind speed distributions in the country were developed under coordination by DMC					
	and A INDD					
	and UNDP.					
Early warning	- DOM issues the warning and DMC disseminates the warning to the public.					
Response	- National and district level DMCC were established.					
	- National and District level disaster management and response plans were prepared or are					
	being revised.					
	- District level search and rescue teams were established					
Miti anti an avanta	The Construction Childline Committee of The National DM Advisory Committee has been					
Miligation works	- The Construction Guideline Committee of The National DM Advisory Committee has been					
	issued a Construction guideline.					
	- The school disaster safety plan are being prepared.					
Awareness/education	- Awareness activities of the construction guideline are being done.					
4. Future prospect of DM						
Management frame work	- Present framework shall be maintained					
Wanagement frame work	- Tresent framework shall be maintained.					
Risk assessment	- Research activities for the cyclones/storms shall be continued.					
Early waring	Dressent system shall be maintained and improved					
Early warning	- Present system shall be maintained and improved.					
Response	- Present system shall be maintained and improved through the continuous training					
Mitigation works	Enforcement of the construction guideling shall be done					
winigation works						
	- Public facilities, such as the government offices, schools, hospitals, etc., shall be strengthened					
	in accordance with the construction guideline.					
Awareness/education	- Awareness activities for the construction guidelines shall be strengthened					
	The activities for the construction guidelines shall be strongulened.					
5. Discrepancy between the present	Small					
condition and the future prospect						
Management frame work	No					
Risk assessment	No					
	Creat (matagralage)					
Early warning	Great (meteorology)					
Response	Small (training)					
Mitigation works	No					
Awareness/education	Small					

No.	8					
Kind of Natural Disaster	Caastal arasian					
1 Damagas in historical record *1	Coastal Crosion					
1. Damages in historical fecold +1	70					
No. of feedba	/8					
No. of deaths	0					
No. of injured						
No. of missing						
No. of houses destroyed	]					
No of houses damaged						
No. of peoples affected	3,223					
No. of peoples relocated	0					
No. of peoples evacuated	646					
No. of lost cattle	0					
2 Degree of impact to country						
Erequency of occurrence	Para					
Area approad						
Area spread						
Loss and damages	Significant					
Impact on population	Significant					
3. Present efforts of DM						
Management framework	- CC&CRMD is in charge of the coast area conservation except the national park areas.					
Risk assessment	- Tendency maps of erosion along the coast line of the country was prepared by CC&CRMD, EDC of University of Paradeniya, DMC and UNDP.					
Early warning	- No early warning is done.					
Response	<ul> <li>National and district level DMCC were established.</li> <li>National and District level disaster management and response plans were prepared or are being revised.</li> <li>District level search and rescue teams were established.</li> </ul>					
Mitigation works	<ul> <li>New coastal zone management plan are being developed by CC&amp;CRMD, based on the National Physical Plan and the Urban Development Plan.</li> <li>Countermeasures of the coastal erosion are implemented by CC&amp;CRMD.</li> </ul>					
Awareness/education	- No awareness activity is done.					
4. Future prospect of DM						
Management frame work	- Present framework shall be maintained					
Wanagement frame work	- Tresent framework shan be maintained.					
Risk assessment	- Research activities for the coast erosion shall be continued.					
Early warning	- Warning method shall be established based on the research results.					
Response	- Present system shall be maintained and improved through the continuous training.					
Mitigation works	- Present system shall be maintained and improved.					
Awareness/education	- Awareness for conservation of the coast line shall be strengthened.					
5. Discrepancy between the present	Small					
condition and the future prospect						
Management frame work	No					
Risk assessment	No					
Early warning	No					
Response	Small (training)					
Mitigation works	No					
Awareness/education	Small					

No.	9					
Kind of Natural Disaster	Lightning					
1 Damages in historical record *1						
No of records	446					
No. of deaths	274					
No. of iniured	374					
No. of injured	38					
No. of missing						
No. of houses destroyed						
No of houses damaged	1					
No. of peoples affected	1,629					
No. of peoples relocated	0					
No. of peoples evacuated	3					
No of lost cattle	0					
2 Degree of impact to country						
Eraquanay of accurrance	Uigh					
Frequency of occurrence						
Area spread	High					
Loss and damages	Significant					
Impact on population	Significant					
3. Present efforts of DM						
Management framework	- DOM is in charge of the forecasting and warning.					
Risk assessment	- Based on the data for 1961 to 1990 at the 20 meteorological stations, distribution Maps of the average thunder days in months and in a year was prepared.					
Early warning	- No warning is done.					
Response	<ul> <li>National and district level DMCC were established.</li> <li>National and District level disaster management and response plans were prepared or are being revised.</li> <li>District level search and rescue teams were established.</li> </ul>					
Awareness/education	- Awareness creation has been implemented by use of the prepared material.					
4. Future prospect of DM						
Management frame work	- Present framework shall be maintained.					
Risk assessment	- Research activities for the thunder and weather shall be continued.					
Early warning	<ul> <li>Based on the research activities, the warning method for lightening shall be established.</li> <li>The warning of the lightening shall be done.</li> </ul>					
Response	- Present system shall be maintained and improved through the continuous training.					
Mitigation works	- The lightning conductor shall be widely used.					
Awareness/education	- Awareness creation shall be continued.					
5. Discrepancy between the present	Small					
condition and the future prospect						
Management frame work	No					
Risk assessment	No					
Early warning	Small (meteorology)					
Response	Small (training)					
Mitigation works	No					
Awareness/education	Small					

No.	10					
Kind of Natural Disaster	Forest fires					
1 Damages in historical record *1						
No. of records	149					
No. of deaths	1					
No of injured						
No. of missing						
No. of missing	<u> </u>					
No. of houses destroyed						
No of houses damaged						
No. of peoples affected	187					
No. of peoples relocated	0					
No. of peoples evacuated	10					
No. of lost cattle	0					
2 Degree of impact to country						
Erequency of occurrence	Para					
Area approad						
Area spread						
Loss and damages	Significant					
Impact on population	Significant					
3. Present efforts of DM						
Management framework	- Department of Forest and Department of Wildlife conservation are in charge of the warning in corporation with DOM.					
D'il annual	No vide eccentration de ma					
Risk assessment	- No fisk assessment is done.					
Early warning	- No early warning issued.					
Response	- National and district level DMCC were established.					
response	- National and District level disaster management and response plans were prepared or are					
	haing required					
	- District level search and rescue teams were established.					
Awareness/education	- Awareness of manmade fire has been implemented.					
4. Future prospect of DM						
Management frame work	- Present framework shall be maintained.					
Risk assessment	- Research activities for the forest fire and weather shall be continued.					
Early warning	- Warning method shall be developed.					
Response	- Present system shall be maintained and improved through the continuous training					
Mitigation works	No work proposed					
Witigation works						
Awareness/education	- Awareness of manmade fire shall be continued.					
5. Discrepancy between the present	Small					
condition and the future prospect						
Management frame work	No					
Risk assessment	No					
Early warning	Small (meteorology)					
Response	Small (training)					
Mitigation works	No					
Awareness/education	Small					
	STITUTE STATES S					

No.	11					
Kind of Natural Disaster	Enidemics					
1. Damages in historical record *1						
No of records	88.833					
No of deaths	368					
No of injured	0					
No of missing						
No. of houses destroyed						
No. of houses demograd						
No of neorles officiated						
No. of peoples affected	588,797					
No. of peoples relocated	0					
No. of peoples evacuated	0					
No. of lost cattle	4,149,120					
2. Degree of impact to country						
Frequency of occurrence	Extremely high					
Area spread	Very high					
Loss and damages	High					
Impact on population	High					
3. Present efforts of DM						
Management framework	- Ministry of Health and Department of Health Services are in charge of management.					
Risk assessment	- No risk assessment in public.					
Early warning	- Warning by Ministry of Health and dissemination by DMC.					
Response	<ul> <li>National and district level DMCC were established.</li> <li>National and District level disaster management and response plans were prepared or are being revised.</li> <li>District level search and rescue teams were established.</li> </ul>					
Awareness/education	- Awareness of health has been implemented.					
4. Future prospect of DM						
Management frame work	- Present framework shall be maintained.					
Risk assessment	- Research activities shall be continued.					
Early warning	- Present system shall be maintained and improved.					
Response	- Present system shall be maintained and improved through the continuous training.					
Mitigation works	- No work proposed.					
Awareness/education	- Awareness of health shall be strengthened.					
5. Discrepancy between the present	Small					
condition and the future prospect						
Management frame work	No					
Risk assessment	No					
Early warning	No					
Response	Small (training)					
Mitigation works	No					
Awareness/education	Small					

## **Spatial distribution of Flood Damage**

Data Source:

Disaster Information Management System in Sri Lanka (www.desinventar.lk/)

Disaster Type: Flood

Period: 2000/01/01~2011/12/31

Record size: 5,175 (5,095 with division information)





Annex 6-1: Spatial Distribution of Flood Damage





Annex 6-1: Spatial Distribution of Flood Damage





Annex 6-1: Spatial Distribution of Flood Damage



# Flood in May 2003

## Flood in Jan & Feb 2011 (Severe Flood in whole Sri Lanka, Especially in Eastern Region)





## **103 River Basins**

Watershed	Watershed	Area	Watershed	Watershed	Area
No.	Name	(km <sup>2</sup> )	No.	Name	(km <sup>2</sup> )
1	Kelani Ganga	2,321	53	Miyangolla Ela	185
2	Bolgoda Ganga	433	54	Maduru Oya	1,487
3	Kalu Ganga	2,784	55	Pulliyanpota Aru	104
4	Benthota Ganga	729	56	Kirimechchi Odai	95
5	Madu Ganga	73	57	Bodigoda Aru	175
6	Madampe Lake	95	58	Mandan Aru	34
7	Telwatta Ganga	53	59	Makarachchi Aru	56
8	Ratgama Lake	16	60	Mahaweli Ganga	10,372
9	Gin Ganga	924	61	Kantalai Aru	459
10	Koggala Lake	55	62	Palampotta Aru	78
11	Polwatta Ganga	239	63	Panna Oya	236
12	Nilwala Ganga	1,024	64	Pankulam Aru	499
13	Seenimodara Oya	49	65	Kunchikumban Aru	200
14	Kirama Ova	209	66	Palakutti Aru	22
15	Rekawa Oya	93	67	Yan Oya	1,529
16	Urubokka Ova	348	68	Mee Ova	158
17	Kachigala	226	69	Ma Ova	1.063
18	Walawe Ganga	2.538	70	Churivan Aru	88
19	Karagan Ova	86	71	Chavar Aru	58
20	Malala Ova	427	72	Palladi Aru	59
21	Embilikala Ova	70	73	Mannal Aru (Munadal Aru)	241
22	Kirindi Ova	1.176	74	Kodalikallu Aru	94
23	Bambawe Aru	84	75	Per Aru	479
24	Mahasiliwa Oya	19	76	Kalmaduru Aru (Pali Aru)	107
25	Butawa Ova	54	77	Maruthapillay Aru	60
26	Menik Ganga	1.278	78	Theravil Aru	111
27	Katupila Aru	101	79	Piramenthal Aru	91
28	Kuranda Aru	148	80	Nethali Aru	124
29	Nabadagas Aru	96	81	Kanakarayan Aru	905
30	Karambe Aru	54	82	Kalawalappu Aru	64
31	Kumbukkan Ova	1.211	83	Akkaravan Aru	260
32	Baguru Ova	142	84	Mandekal Aru	336
33	Girikula Ova	14	85	Pallavaravan Kadu Aru	179
34	Helawa Aru	43	86	Pali Aru	474
35	Wila Ova	500	87	Chappai Aru	75
36	Heda Ova	609	88	Paranki Aru (Menankaddy)	875
37	Karanda Ova	435	89	Nav Aru	537
38	Semani Aru	74	90	Malwathu Ova (Aruvi Aru)	3.183
39	Tandiadi Aru	36	91	Kal Aru	277
40	Kangikadichi Aru	79	92	Moderagama Aru	1.142
41	Rufus Kulam	30	93	Kala Ova	2.847
42	Pannel Ova	195	94	Moonail Aru	104
43	Ambalam Ova	107	95	Mi Ova	1.561
44	Gal Ova	1.877	96	Madurankuli Aru	66
45	Andella Ova	583	97	Kalagama Ova	142
46	Thumpankeni	18	98	Rathambala Ova	260
47	Namakada Aru	18	99	Deduru Ova	2,687
48	Mandipattu Aru	93	100	Karambalan Ova	799
49	Pathanthoddathne Aru	114	101	Ratmal Ova	265
50	Vett Aru	25	102	Maha Ova	1,517
51	Magalavatavan Aru	386	103	Attanagalu Ova	889
52	Mundeni Aru	1,355		Total	61,454

List of 103 River Basins

Source: Natural Resource Management Center, Department of Agriculture, Sri Lanka.

Annex 6-3: Outline of Dam Safety and Water Resources Planning Project (DSWRPP)

# Dam Safety and Water Resources Planning Project (DSWRPP)

Outline of DSWRPP

Component 01 - Dam Safety and Operational Efficiency Improvement	
32 large dams of the country, identified as high risk to the public safety, will be fully rehabilitated.	
	Dams to be rehabilitated
	http://www.damsafety.lk/Information/List_of_dams.html
Department of Irrigation	
1	Parakrama Samudraya
2	Minneriya Wewa
3	Girithale Wewa
4	Kawudulla Wewa
5	Vendrasan Wewa
6	Kanthale Wewa
7	Nachchaduwa Wewa
8	Nuwara Wewa
9	Thisa Wewa
10	Rajanganaya Reservoir
11	Usgala-Siyambalangamuwa_
12	Hurulu Wewa
13	Inginimitiya Reservoir
14	Ridiyagama Reservoir
15	Thabbowa Reservoir
16	Nalanda Reservoir
Mahaweli Authority of Sri Lanka	
1	Bowathenna Reservoir
2	Polgolla Diversion
3	Victoria Reservoir
4	Randenigala Reservoir
5	Rantambe Reservoir
6	Kothmale Reservoir
7	Kala Wewa
8	Kandalama Reservoir
9	Dambulu Oya Reservoir
10	Maduru Oya Reservoir
11	Chandrika Wewa
Ceylon Electricity Board	
1	<u>Canyon</u>
2	<u>Castlereigh</u>
3	Lakshapana
4	Norton
National Water Supply and Drainage board	
1	Kalatuwawa



### Annex 6-3: Outline of Dam Safety and Water Resources Planning Project (DSWRPP)

- 2. Preparation of an updated Mahaweli Water Resources Development Plan for the Mahaweli Ganga and adjoining connected river basins based on an optimization study of water supply and water demand in all sectors; in addition, pre-feasibility and feasibility studies would be undertaken for the highest priority investment projects recommended in the agreed plan; and
- 3. Preparation of an integrated and comprehensive water resources development plan for the Mundeni Aru river basin (of the Eastern Province), and pre-feasibility and feasibility studies of priority investment projects.

### Completed tasks under the component 03 (as of Dec. 2012)

- a) Develop Strategic Planning Framework
- b) Develop Knowledge Base
- c) Develop Modeling/Decision Support System Tools
- d) Develop Strategic Environmental and Social Assessments

### On-going tasks under the component 03 (as of Dec. 2012)

- a. Develop Integrated Water Resource Plans
- b. Strengthen Institutional Capacity

#### Reports

Rerated reports are available in following URL; http://www.damsafety.lk/ProjectM&E/Reports/ISC\_Deliverables.html
# **Major Dams Managed by Irrigation Department**

			GROSS	FS	SD	GRO	DSS	DE	AD	16 Dams to be rehabilitated
NO	RESERVOIR	District	EXTENT	(Full Supp	ly Depth)	CAPA	CITY	STOP	RAGE	by DSWRPP
			(acr)	(ft)	(m)	(ac.ft)	(mcm)	(ac.ft)	(mcm)	
1	Ambalan Ova	Ampara	4 520	25.5	78	35 950	44 344	3 500	4 32	
2	Ekgal Ova	Ampara	2,500	33.0	10.1	23,500	28,987	1,200	1.48	
3	Namal Ova	Ampara	3,700	39.4	12.0	43,450	53.595	4.000	4.93	
4	Pallan Ova	Ampara	3,500	55.0	16.8	93.000	114.714	2,250	2.78	
5	Pannalgama	Ampara	2 700	41.0	12.5	27 600	34 044	2,200	3.08	
6	Rottikulama	Ampara	1 /60	15.5	12.3	5 100	6 201	2,000	0.00	
7	Senanavaka Sam	Ampara	120.000	110.0	33.5	770.000	0.231	0	0.00	
0	Abaya Wowa	Anuradapura	120,000	110.0	1.0	1 675	2.066	0	0.00	
0	Abaya wewa	Anuradapura	10 601	13.0	4.0	1,075	2.000	2 250	0.00	11 1 14
9	Huruluwewa	Anuradapura	10,621	27.5	8.4	20,000	07.842	2,250	2.78	Hurulu Wewa
10	wanakandarawa	Anuradapura	6,240	19.0	5.8	30,250	44.714	3,800	4.69	
11	Mahawilachchiya	Anuradapura	2,700	22.2	6.8	32,500	40.088	1,000	1.23	
12	Manankattiya	Anuradapura	1,500	18.0	5.5	4,928	6.079	403	0.50	
13	Nachchaduwa	Anuradapura	7,000	25.0	7.6	45,100	55.630	100	0.12	<u>Nachchaduwa Wewa</u>
14	Nuwara Wewa	Anuradapura	2,500	23.0	7.0	36,050	44.467	1,000	1.23	<u>Nuwara Wewa</u>
15	Padaviya	Anuradapura	13,800	24.0	7.3	85,000	104.846	4,000	4.93	
16	Rajangana	Anuradapura	17,820	35.0	10.7	81,600	100.652	4,500	5.55	<u>Rajanganaya Reservoir</u>
17	Tisa Wewa	Anuradapura	1,284	19.3	5.9	3,500	4.317	255	0.31	<u>Thisa Wewa</u>
18	Wahalkada	Anuradapura	2,000	28.5	8.7	43,000	53.040	2,025	2.50	
19	Ambewela	Badulla	1,000	17.0	5.2	1,850	2.282	650	0.80	
20	Dambarawa	Badulla	1,507	20.0	6.1	12,910	15.924	1,835	2.26	
21	Kande Ela	Badulla	2,450	27.5	8.4	1,762	2.173	60	0.07	
22	Mapakada	Badulla	1,359	27.0	8.2	7,700	9.498	180	0.22	
23	Nagadeepa	Badulla	4,225	41.0	12.5	23,833	29.398	1,500	1.85	
24	Sorabora	Badulla	2.000	19.5	5.9	14.200	17.515	150	0.19	
25	Navakiri	Batticaloa	17,500	31.0	9.4	53,000	65.375	1.000	1.23	
26	Rugam	Batticaloa	9 752	15.6	4.8	18,600	22 943	0	0.00	
27	Unnichchi	Batticaloa	12 757	33.0	10.1	58 500	72 150	85	0.00	
28	Vakaneri	Batticaloa	0.880	10.2	5.0	13 500	16 652	00	0.10	
20	Padagiriya	Hambantata	3,000	19.2	3.9	0.050	11 162	250	0.00	
29	Dauagiriya	Hambantota	1,030	14.0	4.3	9,050	0.000	250	0.31	
30	Debarawewa	Hambantota	945	8.0	2.4	700	0.803	60	0.08	
31	Kekiriobada	Hambantota	10 750	54.2	16.5	2200	2.714	45	0.06	
32	Lunugamwehera	Hambantota	12,750	41.0	12.5	183,000	225.727	13,300	16.41	
33	Mau Ara	Hambantota	1,811	20.0	6.1	33,300	41.075	6950	8.57	
34	Muruthawela	Hambantota	4,226	49.0	14.9	38,875	47.952	3,200	3.95	
35	Ridiyagama	Hambantota	8,497	18.8	5.7	27,000	33.304	1,600	1.97	<u>Ridiyagama Reservoir</u>
36	Tissawewa	Hambantota	2,750	15.6	4.8	3,516	4.337	35	0.04	
37	Weheragala	Hambantota		25.4	7.7	61,000	75.242	6655	8.21	
38	Weerawila	Hambantota	2,300	13.0	4.0	11,450	14.123	2,015	2.49	
39	Yodawewa	Hambantota	3,267	12.3	3.7	8,375	10.330	100	0.12	
40	Ellewela	Matara	1,339	32.3	9.8	850	1.048	0	0.00	
41	Kekanadura	Matara	1,100	35.8	10.9	2,310	2.849	0	0.00	
42	Dewahuwa	Matale	2,342	28.5	8.7	9,700	11.965	100	0.12	
43	Nalanda	Matale	400	69.5	21.2	12.400	15.295	0	0.00	Nalanda Reservoir
44	Wemedilla	Matale	1.800	36.0	11.0	4,594	5.667	286	0.35	
45	Ambakolawewa	Kurunegala	840	16.5	5.0	6 700	8 264	300	0.37	
46	Attaragalla	Kurunegala	1 036	15.5	۵.0 ۲	3 668	4 52/	000	0.07	
47	Batalagoda	Kurunegala	7 634	12.0	3.0	4 840	5 070	150	0.00	
47	Datalayoua	Kurunegala	7,034	12.0	3.9	4,040	0.970	2 000	0.19	
+0	Kimbulwana	Kurunegala	0,070	21.0	0.2	6 000	24.333	3,000	3.70	
49	Madiuauwana	Kurunegala	2,224	20.0	0.1	0,900	0.011	450	0.00	
50	wedyawa	r urunegala	1,200	14.0	4.3	2,595	3.201	0	0.00	
51	wagalia	Kurunegala	6,000	18.0	5.5	7,440	9.177	70	0.09	
52	Palukadawala	Kurunegala	2,025	27.3	8.3	7,688	9.483	15	0.02	
53	Usgala Siyabalan	Kurunegala	2,100	18.4	5.6	17,350	21.401	1,665	2.05	<u>Usgala-Siyambalangamuwa</u>
54	Ethimale	Monaragala	1,002	16.5	5.0	5,500	6.784	450	0.56	
55	Handapanagala	Monaragala	1,700	18.0	5.5	5,800	7.154	390	0.48	
56	Muthukandiya	Monaragala	2,000	37.0	11.3	24,600	30.344	1,800	2.22	
57	Giritale	Polonnaruwa	7,600	42.7	13.0	18,800	23.189	500	0.62	<u>Girithale Wewa</u>
58	Kaudulla	Polonnaruwa	12,498	30.0	9.1	104,000	128.282	4,500	5.55	Kawudulla Wewa
59	Minneriya	Polonnaruwa	22,475	38.1	11.6	110,000	135.683	4,000	4.93	<u>Minneriya Wewa</u>
60	Pss	Polonnaruwa	24,947	25.0	7.6	109,000	134.450	15,000	18.50	Parakrama Samudraya
61	Inginimitiya	Puttalama	5.335	22.0	6.7	58.835	72.572	4250	5.24	Inginimitiva Reservoir
62	Tabbowa	Puttalama	2.092	18.0	5.5	15.000	18.502	190	0.23	Thabbowa Reservoir
63	Kantale	Trincomalee	21 884	38.8	11 8	114 000	140 617	.50	0.00	Kanthale Wews
64	Mahadiyul Wewa	Trincomalee	1 300	10.0	5.0	16 / 00	20 220	800	0.00	
65	Mora Wewa	Trincomalac	1,000	19.0	J.0	31 000	20.229	1 700	0.59	
66	Vondragan	Trincomalac	4,000	20.0	40.0	20,000	24 040	1,700	2.10	Manadara an Ma
00	venurasan Wan Ela	Tripport also	1,750	39.5	12.0	20,200	24.910	0	0.00	vendrasan wewa
0/	vvari Ela	rincomalee	1,620	13.5	4.1	2,160	2.664	55	0.07	
68	Pavatkulam	vavuniya	4,135	19.4	5.9	27,000	33.304	500	0.62	
69	Akatnimuruppu	wannar	6,231	9.9	3.0	7,000	8.634	0	0.00	
70	Giants Tank	Mannar	24,438	11.5	3.5	31,500	38.855	175	0.22	
71	Viyathikulam	Mannar	1,223	11.1	3.4	1,800	2.220	0	0.00	

# Legal Framework on Water Resources Management

	Act (to read with later Amendments)	Main Objective/s	Responsible Implementation Authority
1	Irrigation Ordinance-1900 (Cap 453)	Irrigation development and maintenance (major works)	Irrigation Department
2	Mahaweli Authority of Sri Lanka Act 23 of 1979	Water resources development in the areas declared under the Act	Mahaweli Authority of Sri Lanka
3	Agrarian Services Act No 58 of 1979	Development and maintenance of small irrigation works. cons	Department of Agrarian development
4	National Water Supply and Drainage Board Act of 2 of 1974	Mainly urban and industrial water supply	National Water Supply and Drainage Board
5	Water Resources Board Act No 29 of 1964	Although the Act provides for advisory services covering all aspects of water resources, in practice, confined to groundwater survey and development.	Water Resources Board
6	Sri Lanka Land Reclamation and Development Corporation Act of 1968 and 1976	Land reclamation and drainage	Sri Lanka Land Reclamation and Development Corporation
7	Ceylon Electricity Board Act 17 of 1969	Hydro Electricity generation and distribution	Ceylon Electricity Board
8	Sustainable Energy Authority Act No 35 of 2007	Promote developing indigenous energy sources. Promote small scale hydro power development.	Sustainable Energy Authority
9	Meteorological Department	Weather data and forecasting	Meteorological Department
10	National Environment Act No 47 of 1980	Overall environment conservation	Central Environment Authority
11	North Western province Environmental Statute No 12 of 1990	Environment conservation in the NWP	NWP Provincial Council
12	Forest Ordinance-1907/Cap 453)	Forest conservation	Department of Forest Conservation
13	Flora and Fauna Protection Ordinance-1937	Conservation of Forest and Wildlife Resources	Departments of Forest Conservation and Wildlife Conservation.

 Table
 Main Enactments & Authorities Related to Water Resources Conservation & Development

# Annex 6-5: Legal Framework on Water Resources Management

	Act (to read with later Amendments)	Main Objective/s	Responsible Implementation Authority
14	Land Development Ordinance of 1935 I	State and alienation for agricultural activity and land development	Land Commissioner's Department
15	State Lands Ordinance No 8 of 1947	Alienation and management of state land e excluding land covered by the LDO	Ministry in charge of the subject of lands, through the Divisional Secretaries.
16	Soil Conservation Act No 1951/ 1996	Soil conservation	Department of Agriculture
17	Mines and Minerals Act 33 of 1992	Surveying and administration of mining of minerals.	Geological Survey and Mines Bureau
18	13 Amendment to the Constitution	Provincial Councils with related central departments on devolved and concurrent subjects	Provincial Councils
19	Land Use Policy Planning Act (*The Department has been established and the enactment is under way)	Mapping of land use and developing land use policy.	Land use Planning Department

Source: Initial Assessment Report, National Water Use Master Plan Volume I (DSWRPP)



# **Flood Inundation Area in Eastern Region**

Source: IWMI

Tools for	Weather	Forecast	(for	DOM)
10013 101	weather	i oi ccust		DOW

	Category	Forecast Range	AWS	Doppler Radar	GMS∗1	POS <sup>*2</sup>	NWP	GPS Radiosonde	Lightning Detection	Effective Forecast
Meteoro	ological Advisory/ Warning	to 1 day	A	A	A	В			В	- Flood - Landslide - Lightning
	Nowcasting	0 to 2 hrs	A	A	A	С		В	В	- Flood - Landslide - Lightning
	Very Short Range	2 to 6 hrs	В	A	В	С	C (MSM*3)	В		- Flood - Landslide
	Short range	6 to 72 hrs	В	В	В		A (MSM*3)	В		<ul><li>Flood</li><li>Landslide</li></ul>
Forecast	Medium Range	3 to 7 days					B (GSM*4)			- Flood - Landslide
	Extended Medium	10 to 30 days					B (GSM*4)			
	Long Range	1 to 3 months					B (GSM*4)			<ul> <li>Agriculture</li> <li>Water</li> <li>resource</li> <li>Water Sector</li> </ul>

Notes : A; Effective B; Moderate C; Less Effective

- \*1: Geostationary Meteorological Satellite
- \*2: Polar Orbiting environmental Satellite( less effective)
- \*3: Meso Scale Model
- \*4: Global Spectral Model

					Ye	ear					Dementer	No. of
Action to be Taken	1	2	3	4	5	6	7	8	9	10	Remarks	Action
HFA1: Governance												
<ul> <li>Preparation of coordination frameworks of flood management at central level and basin level (103 river basin).</li> </ul>											Central level 1st pilot basins 2nd pilot basins Other basins level	F1.1
<ul> <li>Review/re-formulation of legal framework related to the flood management including the urban development and land use.</li> </ul>												F1.2
<ul> <li>Provision of appropriate funding mechanism of the flood management activities</li> </ul>												F1.3
HFA2: Risk Identification, Assessment, monitoring and early warning												
<ul> <li>Preparation of the national hydrological hydro-meteorological data collection network and its' information system, including the FEWS to the public.</li> </ul>											(on going) Upgrading	F2.1
<ul> <li>Update the topographic maps in the flood prone areas, including land use</li> </ul>												F2.2
<ul> <li>Update flood hazard map of the flood prone basins</li> </ul>												F2.3
HFA3: Use knowledge, innovation, education, build calture												
- Promotion of CBDRMPs to the all flood prone areas											Pilot communities Overall	F3.1
<ul> <li>Prepare the technical guidelines of flood management works</li> </ul>												F3.2
<ul> <li>Enhancement of capacity of the engineers/officials related to the flood management</li> </ul>												F3.3
<ul> <li>Promotion of the engagement to the media for the flood</li> </ul>												F3.4
HFA4: Reduce the underlying risk factors												
<ul> <li>Rehabilitation of the aged trunk flood mitigation facilities (tank, bund, channel, drainage pump, etc.)</li> </ul>											Priority structures Other selected	F4.1
<ul> <li>Preparation of the flood management master plans in the respective flood prone basins (including urban flood)</li> </ul>											1st priority basins 2nd priority basins Other priority	F4.2
<ul> <li>Implementation of the flood management master plans in the respective flood prone basins (including urban flood)</li> </ul>											1st priority basins 2nd priority basins	F4.3
<ul> <li>Revision of the urban development and land use plans in accordance with the formulated flood management master plan</li> </ul>											Priority area Overall	F4.4
<ul> <li>Operation and maintenance of the flood management facilities, including enforcement of the urban development and land use</li> </ul>												F4.5
<ul> <li>Promotion of the development of financial risk-sharing and risk transfer mechanism, particularly insurance and reinsurance</li> </ul>					I							F4.6
HFA5:Preparedness for effective response and recovery												
<ul> <li>Preparation/revision/implementation of the national and district emergency response plans.</li> </ul>											Natioal District	F5.1
Promotion of community based search and rescue teams											Pilot communities	F5.2

# Annex 8-2: List of Candidate Projects (Flood Management)

List of Candidate Projects

Kind of	No. of	Project No.	Drojact Title			Ti	me l	Fran	ne			Budget	Partner
Disaster	Required Action	Floject No.	rioject fille	1	2 3	4	5	6	7	8 9	10	(Mill. USD)	(Lead Agency in Bold)
Flood	F1.2	F 01	Institutional Framework - Review/re-formulation of legal framework related to the flood management including the urban development and land use									1.5	MoI&WRM
Flood	F1.1, F2.1, F3.1, F3.2, F3.3, F4.1, F4.2, F4.4, F4.5	F 02	Comprehensive Flood Management Master Plan for 1st Priority River Basins (tentative priority basins: South-Western Region or Eastern Region)									5.0	ID, MASL, SLLRDC, DMC
Flood	F1.1, F2.1, F3.1, F3.2, F3.3, F4.1, F4 2 F4 4 F4 5	F 03	Comprehensive Flood Management Master Plan for 2nd Priority River Basins									5.0	ID, MASL, Sllrdc, DMC
Flood	F1.1, F2.1, F3.1, F3.2, F3.3, F4.1, F4.2, F4.4, F4.5	F 04	Urban Drainage Improvement Plan in Selected Cities (Priority cities in 1st priority basins)									4.0	ID, MASL, Sllrdc, DMC
Flood	F4.1, F4.5	F 05	Urgent Rehabilitation Plan for aged Flood Mitigation Structures (Bund, Tank, Channel, Drainage Pump, etc.)									1.5	ID, MASL, Sllrdc, DMC
Flood	F2.1, F3.1, F3.4, F5.2	F 06	Upgrading and Expanding of Flood Early Warning System and CBDRM						T			5.0	DMC, ID, MASL, DOM
Flood	F2.2, F2.3, F5.1	F 07	Nationwide Flood Risk Assessment for DM Plans									5.0	DMC, ID, MASL
Flood	F3.3	F 08	Capacity Enhancement for Flood Management in Irrigation Department (Pre-condition: enhancement of sub-department of disaster management)									3.5	ID
Flood	F3.3, F4.5	F 09	Coordinating Dam Operation for Flood Management (Pre-condition: accurate flood prediction is available)							T	T	3.5	DMC, ID, MASL, DOM, CEB, NWSDB
Flood	F3.3, F4.3, F4.5	F 10 (IP F02)	Detailed Design and Implementation for Priority Project(s) on Comprehensive Flood Management Master Plan for 1st Priority River Basins						T			80.0	ID, SLLRDC, DMC
Flood	F3.3, F4.3, F4.5	F 11 (IP F03)	Detailed Design and Implementation for Priority Project(s) on Comprehensive Flood Management Master Plan for 2nd Priority River Basins		T					T		80.0	ID, MASL, Sllrdc, DMC
Flood	F3.3, F4.3, F4.5	F 12 (IP F04)	Detailed Design and Implementation for Priority Project(s) on Urban Drainage Improvement Plan in Selected Cities		T				T	T		50.0	ID, MASL, SLLRDC, DMC
Flood	F3.3, F4.3, F4.5	F 13 (IP F05)	Detailed Design and Implementation for Priority Project(s) on Urgent Rehabilitation Plan for aged Flood Mitigation Structures			1 T			T			30.0	ID, MASL, SLLRDC, DMC

# Annex 8-3: Criteria of Future program (Flood Management)

Necessary Condition	Cand	lidate	- Proj	jects									
	F 01	F 02	F 03	F 04	F 05	F 06	F 07	F 08	F 09	F 10	F 11	F 12	F 13
(1) Whether the project has a demand from the government?	$\checkmark$	✓	$\checkmark$	~	$\checkmark$	~	~	$\checkmark$	✓	✓	$\checkmark$	$\checkmark$	$\checkmark$
(2) Whether the project needs to assist?	$\checkmark$	✓	$\checkmark$	~	$\checkmark$	~	~	✓	✓	✓	$\checkmark$	$\checkmark$	$\checkmark$
(3) Whether the project is assisted by the other donors?	-	-	-	-	-	-	1	-	-	-	-	-	-
(4) Whether JICA can implement the Project?	✓	✓	$\checkmark$	~	$\checkmark$	~	~	~	✓	✓	✓	$\checkmark$	$\checkmark$
(5) Whether there is no issues of social and environmental matters?	$\checkmark$	less	less	less	less	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	less	less	less	less

# **Sufficient Conditions in Detail**

Sumeent Co	nutions in Detail	-		-						-	-	-		-	-
Screening Level	Criteria	Check point	F 01	F 02	F 03	F 04	F 05	F 06	F 07	F 08	F 09	F 10	F 11	F 12	F 13
	Feasibility	Whether the project goal can be achieved ?	✓	$\checkmark$	$\checkmark$	✓	✓	✓	✓	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$	$\checkmark$
		Whether the executive agencies are determined and coordinated?		~			~					~	~	~	~
	evel 1: Meturity enh	Whether the executive agencies have enough capacities or the project has capacity	~	~	~	~	~	~	~	~	~	~	~	~	~
Level 1: Feasibility	Level 1:       Maturity       Eminatement aspect:         Feasibility       Whether EIA is required for the implementation or EIA is included in the prohect?         Whether the land acquisition and resettlement are included in the project and there is achievable before the project?         Whether there is any other financial resources	Whether EIA is required for the implementation, or EIA is included in the prohect?		~	~	~	~					~	~	~	~
		Whether the land acquisition and resettlement are included in the project and there is achievable before the project?		~	~	~	~					~	~	~	~
	Financial Status	Whether there is any other financial resources other than JICA?	No	No	No	No	No	No	No	No	No	No	No	No	No
	Effectiveness       other than JICA?         Whether the project is effective in term of reduction of the disaster?		~	~	~	~	~	~	~	~	~	~	~	~	
Level 2.	Efficiency	Whether the project is efficient in term of time and/or finance?	~	~	✓	~	~	✓	✓	~	~	~	~	~	~
Level 2: Need/Impact	Impact	How beneficial is the project to the people of Sri Lanka?	~	~	~	~	~	~	~	~	~	~	~	~	~
	Sustainability	How sustainable is the benefit of the project or whether the project includes the component to secure the sustainability?	~	~	~	~		~	~	~	~	~	~	~	
Level 3:	Japan's experience	Whether the Japan's experiences is applicable to the project in the engineering and managerial	~	~	~	~	~	~	~	~	~	~	~	~	~
Applicability	Time frame	Whether JICA can commit the project with that time frame?		~		~	~		~			~		~	~

# Program: F 02+F 05 & F 10 & F 13

# (Technical cooperation for development planning and Loan Aid)

Comprehensive Flood Management Master Plan for 1st Priority River Basins - together with Urgent Rehabilitation Plan for aged Flood Mitigation Structures (tentative priority basins: South-Western Region or Eastern Region)

#### Agencies involved:

# Irrigation Department (ID)

# Mahaweli Authority of Sri Lanka (MASL)

Sri Lanka Land Reclamation and Development Corporation (SLLRDC) Disaster Management Centre (DMC)

# Background:

South-western region / eastern region in Sri Lanka is suffering from severe floods every year. Urgent flood mitigation measures are required to ensure the human life and economic activity in the region. On the other hand, water management in Sri Lanka has long history over millenniums. Therefore, consideration of Sri Lankan culture of water-use is also important for flood management planning.

# Objectives:

- To establish suitable coordination frameworks for flood mitigation at central level and basin level
- To formulate feasible and appropriate flood management master plan together with the coordination bodies
- To formulate urgent rehabilitation plan for aged flood mitigation structures
- Implementation of project(s) based on the "Comprehensive Flood Management Master Plan" and "Urgent Rehabilitation Plan for aged Flood Mitigation Structures"

# Time frame of implementation:

Coordination framework: 2015 ~ 2016 Comprehensive flood management master plan: 2015 ~ 2017 Urgent rehabilitation plan for aged flood mitigation structures: 2015 D/D and Project implementation for comprehensive flood management: 2018 ~ 2022 D/D and Project implementation for Urgent rehabilitation plan: 2016 ~ 2017

# Geographical area of implementation:

South-western region / eastern region Selected flood mitigation structures

# Activities:

- Preparation of coordination frameworks for flood management at central level
- Preparation of coordination frameworks for flood management at basin level
- Policy/consensus making against flood among the residents and local communities such as farmer's organization in the basin
- Formulation of comprehensive flood management master plan
- for South-western region: Revision of Flood Management Plan for Kelani, Kalu, Gin and Nilwara Rivers
- for Eastern region: Review of Flood Mitigation in Ampara & Batticaloa Districts of Sri Lanka (DMC/UNDP)
- Structural measures:
   Proactive/critical structural measures against flood (structural measure)
- Non-structural measures:
   Provision of FEWS
   Preparation of CBDRMPs for pilot communities

#### Annex 8-4: Project Sheet (Flood Management)

- Selection of priority project(s)
- Feasibility study on priority project(s)
- > Preparation of implementation program for priority project(s)
- Formulation of urgent rehabilitation plan for aged flood mitigation structures and implementation program
  - > Inventory study on aged flood mitigation structures
  - > Review of basic flood management strategies for structures
  - > Selection of priority structures for urgent rehabilitation
  - > Preparation of implementation program for urgent rehabilitation
  - > Detailed Design on selected priority structures for urgent rehabilitation
- Detailed Design and Implementation of Project(s) on "Comprehensive Flood Management Master Plan for 1st Priority River Basins"
- Implementation of "Urgent Rehabilitation Plan for aged Flood Mitigation Structures"

#### Outputs:

- Coordination frameworks for flood mitigation at central, basin and local levels
- Comprehensive flood management master plan 1st priority river basins
- Urgent rehabilitation plan for aged flood mitigation structures
- Flood mitigation structural measures
- FEWS
- CBDRMPs for pilot communities
- Strengthening of existing flood mitigation structures (Rehabilitated structures)

# Budget:

Planning stage

for comprehensive flood management and urgent rehabilitation: 6.5 million USD Implementation stage for comprehensive flood management: 30.0 million USD Implementation stage for urgent rehabilitation: 80.0 million USD

#### Funding status:

# Program: F 04 & F 12

#### (Technical cooperation for development planning and Loan Aid)

Urban Drainage Improvement Plan in Selected Cities (Priority cities in 1st priority basins)

#### Agencies involved:

#### Irrigation Department (ID)

Sri Lanka Land Reclamation and Development Corporation (SLLRDC) Disaster Management Centre (DMC)

#### Background:

Cities in low lying area in Sri Lanka are suffering from severe flood/inundation by local heavy rainfall every year. Urgent flood/inundation mitigation measures are required to ensure the economic activity in the area.

#### Objectives:

- To formulate feasible and appropriate drainage improvement plan together with the flood mitigation coordination bodies
- Implementation of project(s)

#### Time frame of implementation:

Drainage improvement plan: 2018 ~ 2019 D/D and Project implementation: 2020 ~ 2024

#### Geographical area of implementation:

Selected cities

#### Activities:

- Cooperation with coordination frameworks for flood management at basin level
- Policy/consensus making against flood/inundation among the residents and local communities in the area
  - Formulation of drainage improvement plan
  - > Review of Flood Management Master Plan for the objective basin
  - > Proactive/critical structural measures against flood/inundation
  - Provision of FEWS
  - Preparation of CBDRMPs for pilot communities
- Selection of priority project(s)
- Feasibility study on priority project(s)
- Preparation of implementation program for priority project(s)
- Detailed Design and Implementation of Project(s)

#### Outputs:

- Drainage improvement plan for selected cities
- FEWS
- CBDRMPs for pilot communities
- Flood mitigation structural measures

#### Budget:

Planning stage: 4.0 million USD Implementation stage: 50.0 million USD

#### Funding status:

# Program: F 07 (Technical cooperation project)

Nationwide Flood Risk Assessment for Disaster Management Plans

#### Agencies involved:

Disaster Management Centre (DMC) Irrigation Department (ID)

# Background:

DMC is preparing the Flood Hazard Map (FHM) working with rerated agencies and flood event map for south-western region was published. This information is helpful for preparation of Flood management strategy and Disaster Management (DM) plan. DMC also prepared revised district DM plan for Matale and Batticaloa based on the vulnerability and risk assessment. It is desired that these activities cover the whole of Sri Lanka.

#### Objectives:

- Update the topographic maps in the flood prone areas, including land use
- Update flood hazard map of the flood prone basins
- Provision of district DM plans

#### Time frame of implementation:

 $2014 \sim 2016$ 

#### Geographical area of implementation:

Flood Risk Assessment: Nationwide District DM Plan: Selected districts

#### Activities:

- Review of flood condition in Sri Lanka
- Updating of the existing topographic maps
- Provision of nationwide DEM for simulation model
- Development of preliminary flood simulation model
- Preparation of FHMs and/or Flood Risk Maps
- Study on flood risk assessment
- Preparation district DM plans for selected districts

#### Outputs:

- Nationwide DEM
- Preliminary flood simulation model
- FHMs and/or Flood Risk Maps
  - District DM plans for selected districts

#### Budget:

5.0 million USD

#### Funding status:

Action to be Taken					Ye	ear					Pomarka	No
ACTION TO BE TAKEN	1	2	3	4	5	6	7	8	9	10	Remarks	INO.
HFA1: Governance												
- Establish laws and regulations for landslide including control of development activities and land use in landslide prone areas											1-i	L-1.1
HFA2: Risk Identification, Assessment, monitoring and early warning												
<ul> <li>Improve early warning system for sediment-related disaster (increase number of rain fall gauges)</li> </ul>											2-ii	L-2.1
- Update base maps in landslide prone areas (scale 1:10,000)											2-i	L-2.2
- Update the Landslide hazard zonation map (scale1:10,000)											2-i	L-2.3
- Identify high-risk landslide locations											2-i	L-2.4
HFA3: Use knowledge, innovation, education, build calture												
- Enhance capacity for identifying high-risk landslide locations (existing landslides)											3-іі	L-3.1
- Enhance capacity for identifying potential high-risk landslide locations											3-ii	L-3.2
- Enhance capacity for investigations/ surveys of landslide prone areas											3-іі	L-3.3
<ul> <li>Enhance capacity for analysis, design, supervision and maintenance for landslide countermeasureworks</li> </ul>											3-ii	L-3.4
- Prepare technical manuals/ guidelines for investigations/ surveys of landslide prone areas											3-іі	L-3.5
- Prepare technical standards of design and supervision for landslide and training											3-іі	L-3.6
<ul> <li>Prepare technical standards for inspection and maintenance in landslide prone areas and cutting slopes along main national roads</li> </ul>											3-ii	L-3.7
<ul> <li>Prepare construction/ development guidelines for landslide prone areas considering land use plan and urban development plan</li> </ul>											3-ii	L-3.8
- Promote public awareness on landslide mitigation issues											Pilot areas Entire country	L3.9
HFA4: Reduce the underlying risk factors												
- Road Protection against Sediment-related Disaster for Priority Areas-Phase1											4-i	L-4.1
- Road Slope Disaster Mitigation for Road Widening Areas-Phase2											4-i	L-4.2
<ul> <li>Mitigation works for landslide prone areas :Phase1(including pilot work of high priority 16 sites)</li> </ul>											4-i	L-4.3
- Mitigation works for landslide prone areas: Phase2 (other existing 29 sites)											4-i	L-4.4
<ul> <li>Mitigation works in landslide prone areas (potential landslide risks): (identified potential landslides)</li> </ul>											4-i	L-4.5
HFA5:Preparedness for effective response and recovery												

Kind of	No. of	Project No	Project Title			ľ	Time	Fran	ne			Budget	Partner
Disaster	Required Action	Tiojeet No.	110jeet Inte	1	2	3	4 5	6	7	8	9 10	(Mill. USD)	(Lead Agency in
Sediment-related	L-2.1, 2.4, 3.1, 3.3,	L1	Project of Capacity Enhancement for Sediment-related Disaster Mitigation -Phase 1										NBRO/(RDA)
disaster	3.4, 3.5, 3.6											5.0	
(landslide)					Т	Т						5.0	
	L-2.2	L2	Project for updating base map in 1:10,000 scale with LIDAR									50.0	Survey Department/
						_						30.0	NBRO/ (RDA)
	L-1.1, 2.3, 3.2, 3.7,	L3	Project of Capacity Enhancement for Potential Sediment-related Disaster Mitigation -										NBRO/MLLD/UDA
	3.8		Phase 2						_			5.0	
			(including establishment of laws and regulations for landslide)										
	L-4.1	L4	Project of Road Protection against Sediment-related Disaster for Priority Areas-Phase 1										RDA/(NBRO)
					-	Т	Т	4				120.0	
	L-4 2	L5	Project of Road Slope Disaster Mitigation for Road Widening Areas-Phase?		-	-		+					RDA/(NBRO)
	1.2	20	regeet of read prope Disaster miligation for read matching riteas r hase2									120.0	
	1.4.2	T.C.						+					NEDO
	L-4.3	L6	Project of Sediment-related Disaster Mitigation Works : (high priority 16 sites)									30.0	NBRO
				Т	Т	Т						50.0	
	L-4.4	L7	Project of Sediment-related Disaster Mitigation Works : (other existing 29 sites)										NBRO
												50.0	
	T 45	1.0	Durient of Codiment values d Discoton Mitigation Works (identified retartial sites)				_	+					NRDO
	L-4.3	Lð	Project of Sediment-related Disaster Mitigation works : (identified potential sites)									30.0	NBKU
												50.0	
	L-3.9	L9	Project for promotion of public awareness in landslide prone areas										DMC/ NBRO
												2.0	

List of Candidate Projects (as of \*\*\*\*\*)

# Annex 9-3: Criteria of Future Program (Sediment-related Disaster Manegement)

<b>Necessary Co</b>	ndition	Candidate-ProjectsL-1L-2L-3L-4L-5L-6L-7L-8									
			L-1	L-2	L-3	L-4	L-5	L-6	L-7	L-8	L-9
(1)	Whether the project	has a demand from the government?	$\checkmark$								
(2)	Whether the project	needs to assist?	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	✓	✓	$\checkmark$	✓	
(3)	Whether the project										
(4)	Whether JICA can in	nplement the Project?	✓	✓	✓	✓	✓	✓	✓	✓	✓
(5)	Whether there is no i	issues of social and environmental matters?	$\checkmark$	$\checkmark$	✓	$\checkmark$	✓	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Sufficient Co	nditions in Detail										
Screening Level	Criteria	Check point	L-1	L-2	L-3	L-4	L-5	L-6	L-7	L-8	L-9
	Feasibility	Whether the project goal can be achieved ?	✓	$\checkmark$	✓	✓	✓	✓	✓	✓	✓
		Whether the executive agencies are determined and coordinated?	~	~	~	~	~	~	~	~	~
Level 1.	Maturity	Whether the executive agencies have enough capacities or the project has capacity enhancement aspect?	~	~	~	~	~	~	~	~	~
Level 1: Ma Feasibility Fin	Maturity	Whether EIA is required for the implementation, or EIA is included in the prohect?	~	~	~	~	~	~	~	~	~
		Whether the land acquisition and resettlement are included in the project and there is achievable before the project?	~	~	~	~	~	~	~	~	~
	Financial Status	Whether there is any other financial resources other than JICA?									
	Effectiveness	Whether the project is effective in term of reduce of the disaster?	~	~	~	~	~	~	~	~	~
Level 2.	Efficiency	Whether the project is efficient in term of time and/or finance?	~	~	~	~	~	~	~	~	~
Need/Impact	Impact	How beneficial is the project to the people of Sri Lanka?	~	~	~	~	~	~	~	~	~
	Sustainability	How sustainable is the benefit of the project or whether the project includes the component to secure the sustainability?	~	~	~	~	~	~	~	~	~
Level 3:	Japan's experience	Whether the Japan's experiences is applicable to the project in the engineering and managerial	~	~	✓	~	~	✓	~	~	~
Applicability	Time frame	Whether JICA can commit the project with that time frame?	~		~	~	~				
		New Number of the projects	L-1		L-2	L-3	L-4				

# L1: Project of Capacity Enhancement for Sediment-related Disaster Mitigation -Phase 1

# Agencies involved:

National Building Research Organisation (NBRO)

# Background and Rationale:

In Sri Lanka, the number of sediment-related disasters is increasing rapidly caused by heavy rains under the influence of climate change, and increasing development activities in mountainous area.

NBRO mainly has been corresponding to sediment-related disasters with accumulation of technology, however capacity of NBRO for tackling with sediment-related disasters is insufficient.

Therefore, capacity enhancement and technical improvement of NBRO is required, and the expectation for Japanese technical support is high.

# Objectives:

- to identify the high risk landslide locations from among the reported landslides and select the most critical ones needing urgent mitigation
- to plan and implement appropriate and cost effective mitigation measures to eliminate/ minimize future landslide risks
- to promote coordination and collaboration of all stakeholders towards landslide mitigation and strengthen them through education and training
- to enhance capacity of NBRO to effectively deal with landslide mitigation efforts
- to conduct research to improve the systems and methods developed for; landslide hazard zonation mapping, updating these maps incorporating the land use maps and land use changes and landslide forecasting using the hazard zonation maps, rainfall and ground movement thresholds etc

# Time frame:

Year1-4: Short term:

# Geographical Area:

Landslide prone areas (Mainly Badulla, Kandy, Matale and NuwaraEliya Districts)

# Activities:

- Improvement of early warning system for sediment-related disaster (increase

number of rain fall gauges)

- Identify high-risk landslide locations
- Enhance capacity for identifying high-risk landslide locations (existing landslides)
- Enhance capacity for investigations/ surveys of landslide prone areas
- Prepare technical manuals/ guidelines for investigations/ surveys of landslide prone areas
- Enhance capacity for analysis, design, supervision and maintenance for landslide countermeasure works
- Prepare technical standards for design and supervision for landslide countermeasure works

# Output:

Technical standard of landslide

- Network of early warning system for sediment-related disaster (combination of automatic rain fall gauge)
- Enhancement of NBRO's capacity for landslide mitigation

# Budget

USD 5.0 million

# Funding status:

Local and International Funding (technical adviser, equipment, training)

# L2: Project of Capacity Enhancement for Potential Sediment-related Disaster Mitigation -Phase 2

# Agencies involved:

National Building Research Organisation (NBRO)

# Background and Rationale:

The "Project of Capacity Enhancement for Sediment-related Disaster Mitigation -Phase 1" aims at capacity enhancement for "existing risks of landslides".

In the Phase -2, capacity enhancement for "potential risks of landslide" is the main purpose of the project.

This project is related to the "Project for road slope disaster mitigation for road widening areas - Phase 2".

Potential landslide risks caused by such as road widening are main targets of the project.

# Objectives:

- to support implementation of appropriate mitigation measures to minimize potential landslide risks
- to support capacity enhancement of NBRO for mitigation works for potential landslide risks
- to establish laws and regulations for landslide including control of development activities and land use in landslide prone areas

#### Time frame:

Year5-7: Middle term:

# Geographical Area:

Landslide prone areas (Mainly Badulla, Kandy, Matale and NuwaraEliya Districts)

#### Activities:

- Establish laws and regulations for landslide including control of development activities and land use in landslide prone areas
- Update landslide hazard zonation map (scale1:10,000) using updated base map
- Identify potential high-risk landslide locations
- Prepare technical standards for inspection and maintenance in landslide prone areas and cutting slopes along main national roads

- Prepare construction/ development guidelines for landslide prone areas considering land use plan and urban development plan

#### Output:

Laws and regulations for landslide including control of development activities and land use in landslide prone areas

Updated landslide hazard zonation map (scale1:10,000)

Enhancement of NBRO's capacity for potential landslide mitigation

#### Budget

USD 5.0 million

#### Funding status:

Local and International Funding (technical adviser)

2

L3: Project of Road Protection against Sediment-related Disaster for Priority Areas-Phase1

#### Agencies involved:

Road Development Authority, National Building Research Organization

#### Background and Rationale:

In Sri Lanka, the number of sediment-related disasters is increasing rapidly caused by heavy rains under the influence of climate change, and increasing development activities in mountainous area.

Sediment-related disasters have affected road networks and economic activities in Sri Lanka.

On main national highways, RDA has been implementing landslide countermeasures, however with limited countermeasures landslides are still one of the most important problems.

It is in agreement also with the policy of Sri Lanka to ensure the safety of a mountains road, and the necessity is high.

#### Objectives:

- To design and conduct countermeasure works for slopes along major national highways in the selected landslide prone areas with the highest priorities. (model of countermeasure works)
- To support design and construction of countermeasure works of slopes along major national highways in the selected landslide prone areas with higher priorities.
- To introduce early warning system for landslide along major national roads.
- Consulting services for geological surveys, detailed designs, bidding assistance, supervision, etc.

#### Time frame:

Year 1-5 - Short-Middle term

#### Geographical Area:

Seven (7) Districts in mountain area

#### Activities:

- Geological surveys in landslide countermeasure planned sites with high priorities

- Design of countermeasure works against landslides
- Support of tender and contract
- Construction of countermeasure works (high priority sites)
- Introduction of early warning system for landslide

5

- Preparation of technical standards of design method, inspection and maintenance for road cutting slope in landslide prone areas
- Training for counterpart (design, inspection, maintenance)

#### Output:

Improvement of road slope safety (priority areas) Network of early warning system for landslide in road sector Enhancement of capacity of RDA and NBRO for landslide mitigation

# Budget

USD 120.0 million

# Funding status:

Local and International Funding (technical adviser, equipment, training)

# L4: Project of Road Slope Disaster Mitigation for Road Widening Areas-Phase2

# Agencies involved:

Road Development Authority, National Building Research Organization

# Background and Rationale:

Sediment-related disasters have affected to national road networks and economic activities in Sri Lanka.

Recently, many landslides have occurred in cutting slopes with construction/ widening roads, therefore landslides caused by road widening are one of the potential risks in road sector.

In the NRMP, there are many road widening plans in mountainous areas.

Therefore, mitigation works for road widening areas are required and also in the future.

# Objectives:

- To support design and conduct countermeasure works for rode widening areas in major national highways (in high risk areas of landslide)
- To support prediction, investigation, monitoring, design, countermeasure works and maintenance of road widening areas in high risk areas of landslide.
- To support operation of early warning system for road widening areas.

# Time frame:

Year6-10 – Middle - Long term

# Geographical Area:

Seven (7) Districts in mountainous areas

# Activities:

- Updating landslide hazard maps
- Identify and selection of landslide potential risk areas
- Surveys, analysis, designs and supervisions
- Technical standard for road widening areas such as design, inspection, and maintenance
- Training for counterpart

# Output:

Improvement of road widening slope safety

Improvement of operation of early warning system for landslides in road widening areas

Enhancement of capacity of RDA and NBRO for landslide caused by road widening

# Budget

USD 120.0 million

# Funding status:

Local and International Funding (technical adviser)

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Action to be Taken			r		Ye	ar					Remarks	No
	1	2	3	4	5	6	7	8	9	10	Romano	
HFA1: Governance												
<ul> <li>Preparation of framework of meteorological management for data sharing networks including tsunami.</li> </ul>											Central level Overall country	M-1.1
<ul> <li>Review/re-formulation of legal framework related to the meteorological management</li> </ul>												M-1.2
<ul> <li>Provision of appropriate funding mechanism of the meteorological management activities</li> </ul>											Usual management Cosidering Climate Change	M-1.3
- Installation of Maintenance and Calibration Facility												M-1.4
- Installation of Doppler Radar at Matale											in the central-northern part	M-1.5
<ul> <li>Installation of meteorological stations</li> </ul>			1								4 stations	M-1.6
<ul> <li>Installation of GPS radiosonde station at Pottuvil</li> </ul>							(				in south-eastern part	M-1.7
<ul> <li>Installation of lightning detection and tracking system (LDS)</li> </ul>												M-1.8
HFA2: Risk Identification, Assessment, monitoring and early warning												
Preparation of the national meteorological data collection network and its' information system, including EWS to the public.												M-2.1
- Development of Automatic Weather Analysis System												M-2.2
- Improvement of Global telecommunication System												M-2.3
- Stabilize VSAT communicartion system												M-2.4
- Keep adequate maintenance												M-2.5
- Keep stable operation of Automatic Weather Station (AWS) System											38 AWSs Additional AWSs	M-2.6
- Improve capacity for appropriate use of dopplor radar (DR)											Southern part: Gongala Northern part: Matale	M-2.7
- Increase number of observation of GPS radiosonde											2 times/ week -> 1 time/ day 1 time/ day     -> 2 times/ day	M-2.8
- Set warning criteria											Pilot areas Overall country Other issues such as strong winds, thunder storm, etc.	M-2.9
- Keep adequate operation of warning standard (WS)												M-2.10
- Develop guidance												M-2.11
- Improve Numerical Weather Prediction (NWP) system											MSM Phase-1 MSM Phase-2, GSM Phase- 1	M-2.12
HFA3: Use knowledge, innovation, education, build calture												

# Annex 10-1: Action to be Taken (Meteorological Observation/Early Warning )

Action to be Taken		Year									Bomorko	No
		1 2		4	5	6	7	8	9	10	Remarks	
- Promotion of CBDRMPs to all meteorological hazards prone areas											Pilot area Overall	M-3.1
- Prepare networks among organizations related to disaster												M-3.2
<ul> <li>Upgrade the media unit in DOM for advisories and early warnings</li> </ul>												M-3.3
HFA4: Reduce the underlying risk factors												
<ul> <li>Promote the integration of risk management associated with existing climate variability and future climate change into strategies</li> </ul>												M-4.1
HFA5:Preparedness for effective response and recovery												
<ul> <li>Promote and support exchange of information among organizations related to disaster management at all levels</li> </ul>											National District	M-5.1

Kind of	No. of	Project No.	Drojoot Title			Ti	ime	Fram	ne				Budget	Partner
Disaster	Required Action	Project No.	Project The	1 2	2	3 4	5	6 ′	7	8	9 1	0	(Mill. USD)	(Lead Agency in Bold)
Meteorological disaster	M 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 2.10,	M 1	Project for effective improvement of current weather infrastructure - Phase 1 - Enhance stable operation of AWS system - Enhance data sharing network system										5.3	<b>DOM</b> /Concerned agencies such as DMC
	2.11, 2.12, 3.1, 3.2, 3.3, 5.1		<ul> <li>Develop Automatic Weather Analysis System</li> <li>Improve Global Telecommunication System (GTS)</li> <li>Improve NWP system</li> <li>Develop warning standard</li> <li>Improve capacity for utilization of DR data</li> </ul>		I									
	M 2.6, 2.8, 2.9, 2.11, 2.12, 3.1, 5.1	M 2	<ul> <li>Project for enhancement of weather forecasting - Phase 2</li> <li>Increase number of AWSs and keep stable opration</li> <li>Expand monitoring areas to entire island with new doppler radar utilization</li> <li>Improve NWP system</li> <li>Set warning standard to entire island</li> </ul>										2.75	<b>DOM</b> /Concerned agencies such as DMC
	M 2.8, 2.9, 2.11, 3.1, 5.1	M 3	Project for enhancement of weather forecasting - Phase 3 - Improve NWP system with GSM - Set warning standard for other issues - Strengthen EWS										1.2	<b>DOM</b> /Concerned agencies such as DMC
	M 1.5, 1.6	M 4	Project for installation of Doppler Radar/ AWS - Doppler radar - Meteorological stations										3.9	DOM
	M 1.7, 1.8	M 5	Project for installation of equipments for weather forecasting - GPS radiosonde - Lightning detection and tracking system										2.1	DOM
	M 1.2	M 6	Project for provision of appropriate funding - Phase 1										2.5	DOM/MFP
	M 1.2, 4.1	M 7	Project for provision of appropriate funding consideration of climate change- Phase 2										2.5	DOM/MFP

List of Candidate Projects

# Annex 10-3: Criteria of Future Program (Meteorological Obeservation/Early Warning) Candidate- Projects

Necessary Co	ecessary Condition			Candidate- Projects										
-			M-1	M-2	M-3	M-4	M-5	M-6	M-7					
(1)	Whether the project h	has a demand from the government?	✓	✓	✓	✓	✓	✓	✓					
(2)	Whether the project i	needs to assist?	$\checkmark$	✓	✓									
(3)	Whether the project i	s assisted by the other donors?	$\checkmark$	$\checkmark$	✓									
(4)	(4) Whether JICA can implement the Project?													
(5)	Whether there is no i	ssues of social and environmental matters?	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$					
Sufficient Cor														
Screening Level Criteria Check point			<b>M-</b> 1	M-2	M-3	M-4	M-5	M-6	M-7					
	Feasibility	Whether the project goal can be achieved ?	$\checkmark$	✓	✓	✓	✓	✓	✓					
	Maturity	Whether the executive agencies are determined and coordinated?	~	~	~	~	~	~	~					
Level 1: Feasibility		Whether the executive agencies have enough capacities or the project has capacity enhancement aspect?	~	~	~	~	~	~	~					
	Maturity	Whether EIA is required for the implementation, or EIA is included in the prohect?	~	~	~	~	~	~	~					
		Whether the land acquisition and resettlement are included in the project and there is achievable before the project?	~	~	~	~	~	~	~					
	Financial Status	Whether there is any other financial resources other than JICA?												
	Effectiveness	Whether the project is effective in term of reduce of the disaster?	~	~	~	~	~	~	~					
Laural De	Efficiency	Whether the project is efficient in term of time and/or finance?	~	~	~	~	~	~	~					
Need/Impact	Impact	How beneficial is the project to the people of Sri Lanka?	~	~	~	~	~	~	~					
	Sustainability	How sustainable is the benefit of the project or whether the project includes the component to secure the sustainability?	~	~	~	~	~	~	~					
Level 3: J Applicability J	Japan's experience	Whether the Japan's experiences is applicable to the project in the engineering and managerial	✓	~	~	~	~	~	~					
	Time frame	Whether JICA can commit the project with that time frame?	$\checkmark$	$\checkmark$	$\checkmark$									

# M2: Project for enhancement of weather forecasting - Phase 2

#### Agency involved :

Department of Meteorology (DOM)

#### Background and Rationale:

In Sri Lanka, more than 90% of natural disasters are weather or climate related. Every year, floods, droughts, thunder, and lightning activity and strong winds cause disasters in various parts of the island.

DOM is responsible for the provision of warnings and advisories on bad weather (including cyclone, heavy rain, lightning, etc.) and Tsunami.

To provide reliable weather information, capacity enhancement and technical improvement of DOM is required, and the expectation for Japanese technical support is high.

The "Project for enhancement of weather forecasting-Phase1" aims at capacity enhancement for real time weather analysis and forecast.

In the Phase- 2, capacity enhancement for short range weather forecast is the main purpose.

#### Objective:

- to increase number of AWSs and keep stable operation
- to expand monitoring areas to entire island with new Doppler Radar
- to improve NWP
- to set warning standard to entire island

#### Time Frame:

Year 4 -7: Medium Term

#### Activities:

- to add new AWSs in data sparse areas
- to introduce new Doppler Radar for the observation of northern part of island
- to improve the WRFC Model and to develop the Meso Scale Model
- to introduce warning standard for entire island

#### Output:

- Improvement of Nowcast and Early Warning
- Improvement of Short Range Forecast
- Provision of weather information and warning for small area

#### Budget:

 $2.75 \mathrm{M} \mathrm{USD}$ 

#### Funding:

Local and International Funding( technical, equipment, training)

# M3: Project for enhancement of weather forecasting - Phase 3

Agency involved : Department of Meteorology (DOM)

# Background and Rationale:

In Sri Lanka, more than 90% of natural disasters are weather or climate related. Every year, floods, droughts, thunder, and lightning activity and strong winds cause disasters in various parts of the island.

DOM is responsible for the provision of warnings and advisories on bad weather (including cyclone, heavy rain, lightning, etc.) and Tsunami.

To provide reliable weather information, capacity enhancement and technical improvement of DOM is required, and the expectation for Japanese technical support is high.

This project is in succession to the "Project for enhancement of weather forecasting- Phase 2". In the Phase 2, aiming at short range (3 days) forecast, in this project, aiming at medium range (7 days) forecast.

#### **Objectives**:

- to enhance capacity of weather forecasting aiming at 7days forecasting
- to set warning standard for o strong wind, thunder storm, etc.
- to strengthen EWS

#### Time Frame:

Year 8-10: Long term

#### Focus Area:

DOM head quarter and district observation stations

#### Activities:

- to improve NWP system with GSM
- to set warning standard for other issues
- to strengthen EWS

#### Output:

- Seven (7) days forecasting
- Warning standard for other issues
- Well-coordinated EWS system with 7 days forecasting and warning standard with other issues

#### Budget:

1.2 M USD

#### Funding:

Local and International Funding (technical, equipment, training)

Action to be Taken	No					Bomorko						
ACTION TO BE TAKEN	INO.	1	2	3	4	5	6	7	8	9	10	Remarks
HFA1: Governance												
- Strengthening a technical advisory system in DMC (technical advisor)	PA-1.1											
HFA2: Risk Identification, Assessment, monitoring and early warning												
- Complete district disaster preparedness plans for response												ongoing
- Complete "Grama Nildari Level" preparedness plans												ongoing
Complete disaster impact assessment and development future action plan for CBDRM	PA-2.3											
HFA3: Use knowledge, innovation, education, build culture												
- Planning training courses for CBDRM, Awareness and Education	PA-3.1											ongoing
<ul> <li>Enhancing awareness through curriculum and school activity</li> </ul>	PA-3.2											ongoing
- Integration of DM in higher, professional and continuing education curriculum	PA-3.3											ongoing
HFA5:Preparedness for effective response and recovery												
- Capacity building for sustainable CBDRM activities for all disasters												
Training all stakeholders for emergency response, by emphasizing search and rescue training for communities and professionals	PA-5.2											

Kind of Disaster	No. of Required Action	Project No.	Project Title	Time Frame 1-2: Short (S) 3-5: Medium (M) 6-10: Long (L)	Budget (Mill. USD)	Partner (Lead Agency in Bold
CBDRM & PA	PA-2.1 PA-2.2 PA-2.3	PA-01	Strengthening District Disaster Management Centers' functions	М	5	<b>DMC</b> /DM line agencies, SLRCS, NGOs and CBOs
CBDRM & PA	PA-3.1 PA-3.2 PA-3.3 PA-5.1 PA-5.2	PA-02	Capacity Building for Sustainable CBDRM, Preparedness and Response, and Public Awareness	S to M	3	<b>DMC, MoDM,</b> SLIDA, MOE, University
CBDRM & PA	PA-1.1	PA-03	Strengthening a technical advisory system in DMC (technical advisor)	S	1	DMC, MoDM

List of Candidate Projects (as of \*\*\*\*\*)

#### Annex 11-3: Criteria of Future Program (Overall Disaster Management)

Necessary Condition	Can	jects	
	PA-01	PA-02	PA-03
(1) Whether the project has a demand from the government?	$\checkmark$	$\checkmark$	$\checkmark$
(2) Whether the project needs to assist?	$\checkmark$	$\checkmark$	$\checkmark$
(3) Whether the project is assisted by the other donors?		$\checkmark$	$\checkmark$
(4) Whether JICA can implement the Project?	✓	$\checkmark$	$\checkmark$
(5) Whether there is no issues of social and environmental matters?	$\checkmark$	$\checkmark$	$\checkmark$

# Sufficient Conditions in Detail

Screening Level	Criteria	Check point	PA-01	PA-02	PA-02
	Feasibility	Whether the project goal is achivable ?	✓	$\checkmark$	✓
Level 1: Feasibility	Whether the executive agencies are determined and coordinated?			$\checkmark$	$\checkmark$
	Maturity       Whether the executive agencies have enough capacities or the project has capacity enhancement aspect?         Whether EIA is required for the implementation, or EIA is included in the prohect?         Whether the land acquisition and resettlement are included in the project and there is achievable before the project?		✓		
	Financial Status	✓	√	✓	
	Effectiveness	Whether the project is effective in term of reduce of the disaster?			
Level 2:	Efficiency	✓	✓	✓	
Need/Impact	Impact	✓	$\checkmark$	✓	
	Sustainability	How sustainable is the benefit of the project or whether the project includes the component to secure the sustainability?	✓	$\checkmark$	$\checkmark$
Level 3:	Japan's experience	Whether the Japan's experiences is applicable to the project in the engineering and managerial aspects?	✓	$\checkmark$	✓
Applicability	plicability Time frame Whether JICA can commit the project with that time frame?		✓	$\checkmark$	✓

# PA-01: Strengthening District Disaster Management Centers' Functions

#### Agencies involved:

DMC, District Secretaries, Local Authorities in collaboration with SLRCS, CBOs and NGOs,

#### Background and Rationale:

Establishing CBDM resource centers, 25 centers over 25 districts, was proposed in the Road Map for DRM Sri Lank, 2005 as a sub-component of the Community-based Disaster Risk Management activity. The expected functions are being a resource center for local authorities, NGOs, universities and technical institutions on overall DM information, and supporting DM activities as primal facilitator at district level.

Initially, the Road Map planned to team up 5,000 DRM community teams in villages over 500 GN divisions, and to build 10 CBDRM resource centers; yet, there is no district resource centers established yet. As for community teams, DMC does not have tangible information since there is no documentation.

On the other hand, Emergency Operation Centers (EOCs) were established as planned in all districts and ready to be activated in case of any emergencies. EOCs maintain all necessary information required for responding to disasters and stock necessary resources, including equipment and contacts of skilled personnel for emergency. EOCs are also structured to be a leading actor for Incident Command System (ICS), providing necessary control in utilizing available resources to reach out affected people. They also closely work with governmental agencies and NGOs and SLRCS branches from district to community levels, so EOCs will be the center to connect disaster resource networks.

Further activities proposed for EOCs in the NDMP are 1) to strengthen institutional framework and coordination mechanism to facilitate the delivery of emergency response, 2) to sustain the resources network for emergency response effectively and 3) to enhancing the capacities of local authorities.

It is, therefore, proposed to upgrade existing facilities to a District Disaster Management Center, incorporating the functions of CBDM resource center, originally proposed in the Road Map, by utilizing the existing EOCs. The functions of CBDM resource center remain same as proposed before, i.e. 1) to disseminate disaster management information to communities and NGOs, 2) to improve adaptation of communities to new knowledge and 3) to improve their ownership through CBDM activities.

District disaster management center will function as information center based on district preparedness plan and as median station for DMC to reach out communities.

By end of 2010 sixteen (16) district disaster preparedness plans have been completed. Two districts, Matale and Batticaloa Badulla, have revised their plans in 2012 with technical supports from JICA. It is expected that remaining 14 districts will also update the data and revise their district disaster preparedness plans. DMC plans to complete the balance 9 districts: Vavuniya, Killinochchi, Jaffna, Trincomali, Batticaloa, Mulative, Monaragala and Mannar by the end of 2013. As for the preparedness and response plans for Grama Nildari level, less than 10% of plans

were drawn up so far; thus, the DMC needs to strive much effort on this to cover all. In order to expedite the progress it is necessary to establish a median station, i.e. district disaster management center, to outreach GNs and provide collective training to the leaders and committee members to support them drawing up their preparedness and response plans.

Dreparedness and Decremes Dien	Year											
Preparedness and Response Plan	2009	2010	2011	2012	Remaining							
1. District Plan (25 districts)	12	4	0		9							
2. GN Plans (Drafts) (14,022 GN)	197	135	0	573	13,117							

Table: Number of Preparedness and Response Plan Completed (2012)

Source: DRR Activities-12.10.2012 PPT. DMC.

Note: Number of total GN: Referred to Ministry of Public Administration and Home Affairs' Homepage.

# **Objectives:**

Set up a District Disaster Management Center in each district, functioning as CBDM Resource Center, Emergency Operation Center, Emergency Supply Storage and Emergency Shelter.

# Time frame:

Year 2-5 (2014-2016) Middle term

#### **Geographical Area:**

District and GN levels

#### Activities:

- 1. Formulate a standard design (non-physical structure) of CBDM information center, prepare necessary materials, and disseminate the information.
- 2. Train DMC district unit's staff to be a facilitator of CBDM activities (training will be covered in PA-02).
- 3. Prepare district disaster preparedness plans for response
- 4. Support communities to prepare "Grama Nildari Level" preparedness plans for response through CBDRM approach.
- 5. Maintain database of CBOs, NGOs and community teams for effective networking.
- 6. Strengthen institutional framework and coordination mechanism to facilitate the delivery of emergency response.
- 7. Sustain the resources network for emergency response effectively.
- 8. Enhance the capacities of local authorities in emergency response

# Output:

District Disaster Risk Management Centers are established in 25 districts with intended functions, trained staff, necessary resources, and the median center of community outreach and the DMC.

# Budget

USD5.0 million

#### Funding status:



# PA-02: Capacity Building for Sustainable CBDRM, Preparedness and Response, and Public Awareness

#### Agencies involved:

DMC, MoDM, MoE, SLIDA, Universities, CBOs and NGOs

#### Background and Rationale:

Training and Public Awareness division of DMC is responsible for training and public awareness activities for internal staff and also external bodies, such as governmental and non-governmental stakeholder organizations.

The main issues of training on disaster risk management identified in the Road Map are 1) unstructured training programs because of no prior needs assessment, 2) insufficient capacity of trainers and limited training materials, and 3) a general lack of coordinated allocation of training opportunities for sub-national authorities, public officers and community people. Strategies for probable solutions to the above issues were drawn in the Road Map and nine projects were proposed for enhancing public awareness, incorporating awareness programs in school education, and training public officers, professionals and people in general.

DMC conducted training programs for its staff, i.e. a refresher training, an Incident Command System (ICS) training, an introduction training for newly recruited staff and a capacity building training for assistant directors on technical aspects of flood, landslide mitigation and response in past few years; yet, all of them were short-program, maximum five days, and rather incidental programs, but not a structural training. It also coordinated and/or implemented capacity building training for stakeholder agencies; for example, a two day training program for 122 technical personnel in the Northern Province on disaster management with UNDP. DMC also allocated funds to strengthen the capacity of district level stakeholders, like the Police, local authorities' government officers and teachers from vulnerable schools.

Public awareness in school curriculum development on disaster risk management activities were well conducted by responsive agencies, DMC, Ministry of Education, National Institute of Education, Ministry of Tertiary Education and supporting donor agencies, such as giz, UNICEF, UNDP and international NGOs. "Disaster safety education booklet," "Disaster safety education resource kit for national colleges of education," "National guidelines – school disaster safety" and corresponding teachers' manuals were developed by giz, MoE and NIOE, and already distributed to all primary and junior secondary schools. They will be implementing school disaster safety activities to all schools and supporting them to prepare school emergency response plans in next five years.

As for higher education, two universities have master's degree on disaster management and more universities are now providing short-course, diploma courses, on disaster management for students and professionals; yet, training programs and implementation of them are still limited, so 1) training of professionals and 2) developing training program in continuing education are considered as remaining challenges in the education and training sector.

The key strategies in public awareness, education and training remain same for next five years, which are;
- to formulate a strategic policy and action plan to design, conduct and supervise all training under DRM's administration;
- to structure quality assurance system of DRM training, which are delivered by partner governmental agencies and academic institutions;
- to develop partnership with regional and academic institutions for reachable access to all stakeholders in the country; and
- to develop manuals and guidelines in various subject areas, which can be also used for training and awareness activities.

In addition, there is a need to increase the number of trainers to conduct capacity enhancement for CBDRM, awareness and education for coordinated allocation of available regional training opportunities.

#### **Objectives:**

Enhance the capacity of stakeholders in different tiers, national, sub-national and community to uphold sustainable CBDRM and public awareness activities, which concurrently to strengthen disaster resilient society

#### Time frame:

Year1-5 (2014-2018)- Short to Middle term

#### Geographical Area:

National level, District level, Grama Nilidari level

### Activities:

- 1. Designing, implementing and monitoring training courses for CBDRM, public awareness, targeting DCM staff, related governmental agencies, educational institutions and professionals.
- 2. Specific awareness programs for government officials at sub-national level
- 3. General public awareness program at communities
- 4. Develop syllabus for continuing education and short-course at colleges and universities
- 5. Develop and implement specific-purpose training for state, non-state institutions and volunteers for emergency response, with emphasis on search and rescue for communities and professionals.

6.

### Output:

Establishment of training course with several modules, including preparedness, DIA method, mapping, local evacuate unit, search & rescue, recovery, education, campaign and event for awareness.

50 trainers for CBDRM will be trained at DMC; at least two trainers for each districts, by 2015,

# Budget

3 million USD

### Funding status:

Local and International Funding

### PA-03: Strengthening a technical advisory system in DMC (technical advisor)

#### Agencies involved:

#### DMC, MoDM,

#### Background and Rationale:

Considering the institutional capability of DMC, however, it is essential to rebuild from the ground of the organization by reviewing its various aspects, such as human resource development, personnel evaluation system, personnel interchange with other governmental agencies concerned to complement the deficiency of experts at DMC, to develop proper standard operation procedure (SOP), and to introduce an executive advisory engineer who oversees all institutional development and technical matters of all divisions in DMC. It is also essential that DMC will strengthen its coordination and guidance capacities to work efficiently and effectively with related state and non-state institutions.

One of the imperative challenges is to review and revise existing laws and regulations associated to the Disaster Management Act. It was pointed out during the survey that some of existing laws and regulations are enacted right after the colonization era and there has been no update or revision, and there are some contradictions and sometimes do not comply with the Act, or the Act does not fully encompass the preceding laws in it. It was also revealed that roles and functions among related state agencies were not clearly demarcated, and project execution plans were not quite coordinated among related state agencies. In order to effectively implement disaster management plan and emergency response plan, it is inevitable to periodically monitor and provide feedbacks to executing agencies which operate the activities of plans, and if it is necessary, amending laws, regulations or technical standards should be carried out for strengthening disaster management administration. In particular, DMC has overlooked the monitoring and evaluation of the Road Map, which indicated the establishment of a steering committee for those purposes, but so far it is not set out to properly evaluate the outputs of the activities. Although there are brief evaluations in the corporate plan and reports produced by other donor agencies, they do not distinctly reveal the degree of achievement, specific recommendations, or lessons learned from the activities. Considering all abovementioned aspects, it is suggested that an executive advisory engineer or administrator shall be appointed to strengthen overall administration of DMC, and to facilitate coordination among vertically-segmented state agencies' administrative system.

#### **Objectives**:

Strengthen administrative capabilities, functions and technical advisory system in DMC

#### Time frame:

Year1-3 (2014-2016)- Short term

#### **Geographical Area:**

National level, District level, Grama Nilidari level

#### Activities:

1. Appoint a technical advisor to oversee and strengthen overall administration of

DMC, and to facilitate coordination among related state ministries and agencies.

#### Output:

Administrative capabilities, functions and technical advisory system are improved, and DMC will be able to formulate necessary disaster management policies, review and amend laws and regulations, and properly coordinate with and provide disaster management related technical supports to state ministries and agencies concerned.,

#### **Budget**

1 million USD

#### Funding status:

International Funding



### Annex 13: Longlist of DRM





: Technical Cooperation Project

: Grant Aid

: ODA Yen Loan



		Schedule/Content of the Study							
Date		Ryuichi HARA: Team Leader/ Program Planning	Yosuke USUI: Disaster Management Governance/ Others	Osamu ABE: Evaluation Analysis/ Management Policy Assistance	Hideki ARAKI: River Management	Akira OHKAWARA: Sediment-related Disaster	Tetsuro Fukui: Meteorological Observation/ Early Warning	Hodaka IGO: Integrated Flood Management	Akira SASAKI: Project Coordination/ River Management 2
1 Nov 12	Thu		Governance/ Others	Assistance		Distator	System		Kiver Wanagement 2
1-Nov-12	Eri	<u> </u>							
2-Nov-12	Ff1								
3-Nov-12	Sat								
4-Nov-12	Sun								
5-Nov-12	Mon								
6-Nov-12	Tue								
7-Nov-12	Wed								
8-Nov-12	Thu	ļ							
9-Nov-12	Fri								
10-Nov-12	Sat								
11-Nov-12	Sun								
12-Nov-12	Mon								
12 1101 12	mon								
13-Nov-12	Tue	Move to Sri Lanka	Move to Sri Lanka				Move to Sri Lanka	Move to Sri Lanka	
14-Nov-12	Wed	Meeting w/JICA, JICA Experts	Meeting w/JICA, JICA Experts				Meeting w/JICA, JICA Experts	Meeting w/JICA, JICA Experts	
15-Nov-12	Thu	Symposium:	Symposium: UNDP				Preparation of ICR	Preparation of ICR	
16-Nov-12	Fri	Meeting w/ ID,	Symposium:				Meeting w/ ID,	Meeting w/ ID,	
		NBRO, DOM	UNDP Site Survey in				NBRO, DOM	NBRO, DOM	
17-Nov-12	Sat	Ratnapura	Ratnapura				Ratnapura	Ratnapura	
18-Nov-12	Sun	Review and Analysis of Collected Data	Review and Analysis of Collected Data				Review and Analysis of Collected Data	Review and Analysis of Collected Data	
19-Nov-12	Mon	Meeting w/MDM	Meeting w/MDM				Meeting w/MDM	Meeting w/MDM	
20-Nov-12	Tue	Meeting w/Mahaweli Authority	Meeting w/MASL, DSWRPP				Meeting w/Mahaweli Authority	Meeting w/Mahaweli Authority	
21-Nov-12	Wed	Meeting w/ERD, WB	Meeting w/ERD, WB				Meeting w/ERD, WB	Meeting w/ERD, WB	
22-Nov-12	Thu	Meeting w/JICA Experts	Meeting w/JICA Experts				Meeting w/JICA Experts	Meeting w/JICA Experts	
23-Nov-12	Fri	Preparation of Draft Interim Report	Preparation of Draft Interim Report				Preparation of Draft Interim Report	Preparation of Draft Interim Report	
24-Nov-12	Sat	Preparation of Draft Interim Report	Preparation of Draft Interim Report				Preparation of Draft Interim Report	Preparation of Draft Interim Report	
25-Nov-12	Sun	Preparation of Draft Interim Report	Preparation of Draft Interim Report				Preparation of Draft Interim Report	Preparation of Draft Interim Report	
26-Nov-12	Mon	Meeting w/UDA	Meeting w/UDA				Meeting w/UDA	Meeting w/UDA	
27-Nov-12	Tue	Preparation of Draft Interim Report	Preparation of Draft Interim Report				Preparation of Draft Interim Report	Preparation of Draft Interim Report	
28-Nov-12	Wed	Meeting w/RDA	Preparation of Draft Interim Report				Meeting w/DOM	Preparation of Draft Interim Report	
29-Nov-12	Thu	Meeting w/ DMC	Meeting w/ DMC		Move to Sri Lanka		Meeting w/ DMC	Meeting w/ DMC	
30-Nov-12	Fri	Meeting w/SLLRDC	SINCOLD Seminar		Meeting w/SLLRDC		Meeting w/DOM	Meeting w/SLLRDC	

		Schedule/Content of the Study							
Date		Ryuichi HARA: Team Leader/ Program Planning	Yosuke USUI: Disaster Management Governance/ Others	Osamu ABE: Evaluation Analysis, Management Policy Assistance	Hideki ARAKI: River Management	Akira OHKAWARA: Sediment-related Disaster	Tetsuro Fukui: Meteorological Observation/ Early Warning System	Hodaka IGO: Integrated Flood Management	Akira SASAKI: Project Coordination/ River Management 2
1-Dec-12	Sat	Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report		Preparation of Draft Interim Report	Preparation of Draft Interim Report	
2-Dec-12	Sun	Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report		Preparation of Draft Interim Report	Preparation of Draft Interim Report	
3-Dec-12	Mon	Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Move to Sri Lanka	Preparation of Draft Interim Report	Preparation of Draft Interim Report	
4-Dec-12	Tue	DiMCEP Seminnar	DiMCEP Seminnar		DiMCEP Seminnar	DiMCEP Seminnar	DiMCEP Seminnar	DiMCEP Seminnar	
5-Dec-12	Wed	Meeting w/MOI Meeting w/ JICA	Meeting w/MOI Meeting w/ JICA		Meeting w/MOI Meeting w/ JICA	Meeting w/JICA	Meeting w/JICA	Meeting w/MOI Meeting w/ JICA	
6-Dec-12	Thu	Meeting w/NBRO	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Meeting w/NBRO	Meeting w/DOM Preparation of report	Preparation of Draft Interim Report	
7-Dec-12	Fri	Meeting w/RDA	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Meeting w/RDA	Meeting w/DOM Preparation of report	Preparation of Draft Interim Report	
8-Dec-12	Sat	Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Preparation of Draft Interim Report	Preparation of Draft Interim Report	Preparation of Draft Interim Report	
9-Dec-12	Sun	Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Preparation of Draft Interim Report	Preparation of Draft Interim Report	Preparation of Draft Interim Report	
10-Dec-12	Mon	Site Survey in Nuwara Eliya	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Site Survey in Nuwara Eliya	Meeting w/DOM Preparation of report	Preparation of Draft Interim Report	
11-Dec-12	Tue	Site Survey in Nuwara Eliya	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Site Survey in Nuwara Eliya	Meeting w/DOM Preparation of report	Preparation of Draft Interim Report	
12-Dec-12	Wed	Meeting w/Survey Department	Meeting w/SD Rain Water Seminar		Meeting w/SD Rain Water Seminar	Meeting w/Survey Department	Return to Japan	Meeting w/SD Rain Water Seminar	
13-Dec-12	Thu	Symposium by NBRO	Symposium by NBRO		Meeting w/MOI Sympo. by NBRO	Symposium by NBRO		Symposium by NBRO	
14-Dec-12	Fri	Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report	
15-Dec-12	Sat	Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report	
16-Dec-12	Sun	Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Preparation of Draft Interim Report		Preparation of Draft Interim Report	
17-Dec-12	Mon	Meeting w/ NBRO	Preparation of Draft Interim Report		Preparation of Draft Interim Report	Meeting w/ NBRO		Preparation of Draft Interim Report	
18-Dec-12	Tue	Meeting w/ GSMB	Meeting w/ GSMB Meeting w/DG of ID		Meeting w/DG of ID	Meeting w/ GSMB		Meeting w/DG of ID	
19-Dec-12	Wed	Meeting w/ JICA	Meeting w/IWMI Meeting w/JICA		Meeting w/IWMI Meeting w/JICA	Meeting w/JICA		Meeting w/IWMI Meeting w/JICA	
20-Dec-12	Thu	Meeting of Interim Report	Meeting of Interim Report		Meeting of Interim Report	Meeting of Interim Report		Meeting of Interim Report	
21-Dec-12	Fri	Meeting w/CCD Meeting w/DMC	Meeting w/CCD Meeting w/DMC		Meeting w/DMC	Meeting w/CCD Meeting w/DMC		Meeting w/CCD Meeting w/DMC	
22-Dec-12	Sat	Preparation of Draft Final Report	Preparation of Draft Final Report		Preparation of Draft Final Report	Preparation of Draft Final Report		Preparation of Draft Final Report	
23-Dec-12	Sun	Preparation of Draft Final Report	Preparation of Draft Final Report		Preparation of Draft Final Report	Preparation of Draft Final Report		Preparation of Draft Final Report	
24-Dec-12	Mon	Meeting w/NBRO	Preparation of Draft Final Report		GIS Data Collection Preparation of DFR	Meeting w/NBRO		GIS Data Collection Preparation of DFR	
25-Dec-12	Tue	Preparation of Draft Final Report	Preparation of Draft Final Report		Preparation of Draft Final Report	Preparation of Draft Final Report		Preparation of Draft Final Report	
26-Dec-12	Wed	Site Survey along Expressway	Preparation of Draft Final Report		Preparation of Draft Final Report	Site Survey along Expressway		Preparation of Draft Final Report	
27-Dec-12	Thu	Preparation of Draft Final Report	Preparation of Draft Final Report	Move to Sri Lanka	Preparation of Draft Final Report	Preparation of Draft Final Report		Return to Japan	

	Schedule/Content of the Study								
Date		Ryuichi HARA: Team Leader/ Program Planning	Yosuke USUI: Disaster Management Governance/ Others	Osamu ABE: Evaluation Analysis/ Management Policy Assistance	Hideki ARAKI: River Management	Akira OHKAWARA: Sediment-related Disaster	Tetsuro Fukui: Meteorological Observation/ Early Warning System	Hodaka IGO: Integrated Flood Management	Akira SASAKI: Project Coordination/ River Management 2
28-Dec-12	Fri	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report			
29-Dec-12	Sat	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report			
30-Dec-12	Sun	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report			
31-Dec-12	Mon	Meeting w/ID, RDA	Meeting w/ID	Preparation of Draft Final Report	Meeting w/ID	Meeting w/RDA			

	Schedule/Content of the Study								
Date		Ryuichi HARA: Team Leader/ Program Planning	Yosuke USUI: Disaster Management Governance/ Others	Osamu ABE: Evaluation Analysis/ Management Policy Assistance	Hideki ARAKI: River Management	Akira OHKAWARA: Sediment-related Disaster	Tetsuro Fukui: Meteorological Observation/ Early Warning	Hodaka IGO: Integrated Flood Management	Akira SASAKI: Project Coordination/ River Management 2
1-Jan-13	Tue	Meeting w/DMC	Meeting w/DMC	Meeting w/DMC	Meeting w/DMC	Return to Japan	System		
2-Jan-13	Wed	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report				
3-Jan-13	Thu	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report				
4-Jan-13	Fri	Meeting w/DG of DMC, w/ DMC	Meeting w/DG of DMC, w/ DMC	Meeting w/DG of DMC, w/ DMC	Meeting w/DG of DMC, w/ DMC				
5-Jan-13	Sat	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report				
6-Jan-13	Sun	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report				Move to Sri Lanka
7-Jan-13	Mon	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report				Preparation of Draft Final Report
8-Jan-13	Tue	Meeting w/ NPPD	Meeting w/ NPPD	Preparation of Draft Final Report	Meeting w/ID				Preparation of Draft Final Report
9-Jan-13	Wed	Site Survey in Kurunegala	Site Survey in Kurunegala	Preparation of Draft Final Report	Site Survey in Kurunegala				Site Survey in Kurunegala
10-Jan-13	Thu	Meeting w/ GIZ	Preparation of Draft Final Report	Meeting w/ GIZ	Preparation of Draft Final Report				Meeting w/ GIZ
11-Jan-13	Fri	Preparation of Draft Final Report	Meeting w/ID	Preparation of Draft Final Report	Meeting w/ID				Preparation of Draft Final Report
12-Jan-13	Sat	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report				Preparation of Draft Final Report
13-Jan-13	Sun	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report				Preparation of Draft Final Report
14-Jan-13	Mon	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report				Preparation of Draft Final Report
15-Jan-13	Tue	Meeting w/ DMC Meeting w/JICA	Meeting w/ DMC, ID, JICA	Meeting w/ DMC Meeting w/JICA	Meeting w/OCHA, ID, JICA				Meeting w/ DMC Meeting w/JICA
16-Jan-13	Wed	Meeting w/ JICA, Red Cross	Meeting w/ JICA, w/ID, w/MOI	Meeting w/ JICA, Red Cross	Meeting w/ JICA, w/ID, w/MOI				Meeting w/ JICA, Red Cross
17-Jan-13	Thu	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report	Return to Japan				Preparation of Draft Final Report
18-Jan-13	Fri	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report					Preparation of Draft Final Report
19-Jan-13	Sat	Meeting w/ JICA	Meeting w/JICA	Meeting w/JICA					Meeting w/JICA
20-Jan-13	Sun	Preparation of Draft Final Report	Preparation of Draft Final Report	Preparation of Draft Final Report					Preparation of Draft Final Report
21-Jan-13	Mon	Meeting w/ DOM	Return to Japan	Meeting w/ DOM					Meeting w/ DOM
22-Jan-13	Tue	Meeting of DFR		Meeting of DFR					Meeting of DFR
23-Jan-13	Wed	Preparation of Draft Final Report		Preparation of Draft Final Report					Preparation of Draft Final Report
24-Jan-13	Thu	Preparation of Draft Final Report		Preparation of Draft Final Report					Preparation of Draft Final Report
25-Jan-13	Fri	Site Survey in Matale		Seminar of ICE					Site Survey in Matale
26-Jan-13	Sat	Preparation of Draft Final Report		Preparation of Draft Final Report					Preparation of Draft Final Report
27-Jan-13	Sun	Preparation of Draft Final Report		Preparation of Draft Final Report					Preparation of Draft Final Report
28-Jan-13	Mon	Meeting w/JICA		Meeting w/JICA					Meeting w/JICA
29-Jan-13	Tue	Meeting w/UNDP		Meeting w/UNDP					Meeting w/UNDP
30-Jan-13	Wed	Preparation of Draft Final Report		Preparation of Draft Final Report					Preparation of Draft Final Report
31-Jan-13	Thu	Return to Japan		Return to Japan					Return to Japan

Orga	Organizations			
No.	Name	Designation		
Mini	Ministry of Disaster Management (MDM)			
1	S. M. Mohamed	Secretary		
2	S. Ranasinghe			
3	U. K. Bandara			

Ministry of Finance & Planning			
4	M. P. D. U. K. Mapa Pathirana	Director General	
5	D. L. U. Peiris	Director	

Ministry of Irrigation & Water Resources Management (MoI&WRM)			
6	K. W. Ivan de Silva	Secretary	
7	Upali Wickramaratna	Additional Secretary (Technical)	
8	D. D. Ariyaratne	Director (Plan Implementation)	
9	P. U. Wikramarathne		

Ministry of Land & Land Development Survey Department				
10	S. Sivanantharaja	Senior Superintendent of Surveys		

Disa	Disaster Management Centre (DMC)				
11	Gamini Hettiarachchi	Director General			
12	Ravi Jayarathne	Acting Director			
13	Anoja Senevirathne	Mitigation Division			
14	Palitha Bandara	Training & Awareness Division			

National Physical Planning Department (NPPD)			
15	J. M. L. Jayasekara	Director General	

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Irrig	Irrigation Department of Sri Lanka (ID)			
16	Bandra Kamaladasa	Director General of Irrigation		
17	M. Thuraisingham	Additional Director General of Irrigation		
		Former Director of Irrigation (Plan Implementation,		
		Drainage & Flood Protection)		
18	Y. Abdul Majeed	Additional Director General of Irrigation		

Orga	Organizations			
No.	Name	Designation		
19	R. G. Wickramaratne	Director of Irrigation (Disaster Management)		
20	Sarath Wijesekara	Director of Irrigation (System Management)		
21	T. Janaki Meegastenna	Director of Irrigation (Water Management)		
22	Prema Hettiarachchi	Deputy Director Hydrology Division		
23	D. N. H. L. Madawalagama	Former Deputy Director Dam Safety Division		
24	Kithsiri Weligepola	Chief Engineer, Water Resources Planning		
25	S. P. C. Sugeeshwara	Chief Engineer, Drainage Branch		
26	J. D. Amarasekara	Irrigation Engineer		
27	Sudharam Elakanda	Dam Safety and Water Resources Planning Project		
		(DSWRPP) Project Director		

Department of Meteorology (DOM)		
28	Lalith Chandrapala	Director
29	S. H. Kariyawasam	
30	Mr. Ajith	
31	Mr. Jauasomghe	
32	Mr. Jayasekara	
33	Mr. Kelm	
34	Mr. Malika	
35	Mr. Nuan	

National Building Research Organization (NBRO)		
36	Asiri Karanawela	Director General
37	R. M. S. Bandara	Director
38	Harshan de Silva	Senior Engineering Geologist

Sri Lanka Land Reclamation & Development Corporation (SLLRDC)		
39	Harshan de Silva	Chairman
40	K. Rajapakes	Additional General Manager
41	C. B. Amarasinghe	Deputy General Manager
42	A. H. Thushari	Assistant General Manager
43	P. Wijeratne	Assistant General Manager

Orga	Organizations		
No.	Name	Designation	
Coast Conservation Department (CCD)			
44	A. H. Gamini Hiwagi	Deputy Director	
45	Chandrika Jayanelk	Chief Engineer	

Geological Survey and Mines Bureau(GSMB)		
46	B. Anil Peris	Director General
47	Dr. Prame	Deputy Director / Geology

Mahaweli Authority of Sri Lanka		
48	W. M. T. D. Weerakoon	

Road Development Authority (RDA)		
49	H. M. K. G. G. Bandara	Director Planning
50	Namlie Siyambalapitiya	Deputy Director
51	P. R. D. Fernando	Planning Division
52	J. A. V. S. Jayakody	
53	Shantha Samarasinghe	

Urban Development Authority (UDA)		
54	P. G. Pushpa Gamage	

United Nations Development Programme (UNDP)		
55	Enrico Gaveglia	Deputy Country Director (Programme & Operations)
56	Ananda Mallawatantri	Assistant Country Director (Programme)

World Bank (WB)		
57	Surauga Kahandawa	

German Development Cooperation (GIZ)		
(Deutsche Gesellschaft für Internationale Zusammenarbeit)		
58	Elke Krause Hannak	Advisor - Ministry of Education
59	Menake Wijesinghe	Advisor - Disaster Safety and Innovative Teaching

Organizations		
No.	Name	Designation
International Water Management Institute (IWMI)		
60	Ranjith Ariyaratne	

Sri Lanka Red Cross Society (SLRCS)		
61	S. B. Madugalle	Deputy Director General
62	Gothami Chandraratne	Programme Office - Disaster Management